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Before building Xerces, you need the source package and tools package available from the Apache XML Project's distribution web page:

http://xml.apache.org/dist/xerces-j/

Download both the Xerces-J-src.X.Y.Z.zip and Xerces-J-tools.X.Y.Z.zip files for the appropriate Xerces release (where "X.Y.Z" is the version number) and extract them in the same directory. If you are using Unix, download the equivalent .tar.gz files instead of the .zip files.

You also need to have a Java Development Kit (JDK) version 1.2 (or higher) installed on your system. Before initiating any part of the build, set the JAVA_HOME environment variable to the installation directory of your JDK.

The Ant program is used to build everything in Xerces, including the documentation. This tool, and the others needed (besides the pre-requisite JDK) are contained within the tools package. To make building the packages easier, a Windows batch file and a Unix shell script are included.

If you only want to compile the source code and make the JAR files, run the following command on Windows:

build.bat jars

or from Unix (make sure that build.sh is executable):

build.sh jars

This will compile all of the source code and generate the JAR files that are available as part of the binary package. After building, these files will be located in the build/ directory.

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1.10 Bouncy Castle Provider 1.62

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*/

package org.apache.cxf.rs.security.oauth2.common;

import java.io.Serializable;

```
/**
```

* Base permission description

* @see OAuthAuthorizationData

*/

public class Permission implements Serializable {

```
private static final long serialVersionUID = 8988574955042726083L;
```

private String permission;

private String description;

private boolean isDefault;

```
public Permission() {
```

```
}
```

```
public Permission(String permission, String description) {
```

```
this.description = description;
```

```
this.permission = permission;
```

}

/**

```
* Gets the permission description
```

```
* @return the description
```

```
*/
```

```
public String getDescription() {
```

```
return description;
```

```
}
```

```
/**
```

```
* Sets the permission description
```

```
* @param description
```

```
*/
```

```
public void setDescription(String description) {
    this.description = description;
```

```
}
```

/**

- * Get the permission value such as "read_calendar"
- * @return the value

```
*/
 public String getPermission() {
    return permission;
  }
  /**
  * Sets the permission value such as "read calendar"
  * @param permission the permission value
  */
 public void setPermission(String permission) {
    this.permission = permission;
  }
  /**
  * Indicates if this permission has been allocated by default or not.
  * Authorization View handlers may use this property in order to restrict
  * the list of scopes which may be refused to non-default scopes only.
  * For example, the read-only check-box controls can be used to represent
  * the default scopes
  * @param isDefault true if the permission has been allocated by default
  */
 public void setDefault(boolean value) {
    this.isDefault = value;
  }
 public boolean isDefault() {
    return isDefault;
  }
}
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*/
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
public class Permission {
 private String permission;
 private String description;
 private boolean isDefault;
 public Permission() {
  }
 public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
  }
 public String getDescription() {
    return description;
  }
 public void setDescription(String description) {
    this.description = description;
  }
 public String getPermission() {
    return permission;
  }
 public void setPermission(String permission) {
    this.permission = permission;
  }
 /**
  * Indicates that this permission has been allocated by default.
  * Authorization View handlers may use this property in order to restrict
  * the list of scopes which may be refused to non-default scopes only
  * @param isDefault
  */
 public void setDefault(boolean value) {
    this.isDefault = value;
  }
 public boolean isDefault() {
    return isDefault;
```

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- */

package org.apache.cxf.io;

import java.io.IOException; import java.io.InputStream;

/**

- * Marker interface for OutputStreams that can directly support
- * copying from an input stream. OutputStreams that maintain their

* own byte buffer or similar may be able to optimize the copy

* instead of using the read/write into a temporary buffer that

- * the normal IOUtils.copy method requires.
- */

public interface CopyingOutputStream {

int copyFrom(InputStream in) throws IOException;

}

##

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IHDR8sRGB@IDATx] |! KPp1-B+mbVbTP6A
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moKEskUnp`+*yrWE|Nio:O>F''T4p2-qT< mQLReQW*SDjlOR2jPK>!|G>qCTrUj\$

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."\%(^/8`vH+39Hym33jyUOnmCejw-H#O{D+:*B%r2y/=YmG%-[)du7[Y1aZ&\vjc;nbt}/[E)DCvq`fv
y9~
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 $\label{eq:linear} $$ D/qjuRWZPAe<W^&, _.e7SY, '.uK|ozx!j15n58Nx2*UNvo8yX>kUza-&F;h"kFV,qq6qmhN$yQ1*:w+x;-^'Aie O5To8K*E+.Gx $$ O5To8K*E+.Gx $$ Distributed as a structure of the second structure of$

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(j'fZ5W2\!Eq]_<aE/c05:Ng6~%xr2W+mj pHVu#bLo<&br\$/Env[z

 $\label{eq:u12} U7zpw-g<JG=cM:rjhD?e.**V&pBB2Lz, Jw \ pOL<6_2/T5~_L\ ?5Q!aWr9X|RpwjLN:]KaO_)\ wm@pmR2; gNu \ 94\#\&9$

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 $fa3W \!\!>\!\!7BAi \!\!=\!\!sv7 \!\!+\!\!3o \!\!\wedge\!\! l/Zv_+\!nv,\!0o_NFd \!\!<\!\!W4@(x\%[Of\%SqnP(Te] \!\!-\!Y$

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 $\label{eq:started} XzMIDQ]B*=3UWnLd9kpf@8{,{~2l8r,{S/6nM6OyGga~5mPPo}Iq`?!3Ff6{zTd#HHJXpk9KF`$OWRih0O,YYI# %wt,>o`;IXzxYnI^w=YDDL=D"vqvwd+j]rk0Lw>S]]myQ?6DA6W~zuDH@H7J)O*qX/Q^[\5qeijI+|tHBXLA?)^ `#%E`*qRfJ)RehJ:;<*)s4t93JZ$

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\label{eq:constraint} $$'i9qr#"3n8Slk+FIv&tj\%Gs(HW5Ry17#n 1AQjexc?f\%cXJ,yy<MG/diQ4G=4[ZuVlv!mr]{}
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najRsopy_ZW3z?g_b19mX#^7gvU;o(LKi17^obj}`A7@pN}YTjptG@;w=f%mh,U39 7'Fu
pehYPJ7>Pm3/Gozq<
fa8bsPBppY0YZhP'E_dUmvDp@sCb(_PS(_vA1Z16+N_Wigs-7`Y(1"f18(T))
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?Enx 9Mhn+0^UhW5Zwud7z&cl*7k7aU v%}]}nj=0?kk)~QIM
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```

```
\label{eq:rescaled} $$R71*76BVx$+0LHghlp1%yN,~4FME#6+LVP&Eq/a{2v&Zhj'VM<S/+'!8e_#{1A!'iL%cvh*<9a9u&Nh3*PA+KL_!7r~@C3YA~:}z bom5G)hk|_Up|f"|jzRUj>p.V+B>y3lG0q#|8,q&vrCZ8@n.AGC#L&!cYy]D5hw:V:yprThCi2m"K .ma2U8v22).,^CN"DN,lbk-M v9L&,{lDpiI&>LICzhhn_$X?CP(HU4)}
```

'*n

rt8?x9I\$%,

```
С
```

JOr&|dE6jh&[17`"]5]#hGjGF:,

z\$}! <(pt+RV.+2J0OR`6h]w

```
aTSc4E4C/\&v8|\&|\&;Z\%\sim UUa\&Z=\sim r8':^j*(=9qnDrjlC'.8C3U6Qd\{:,mQz8'_Z'Kr]Ya2PqtqPj@W0v9D^jTn3oKPdEQeBp#:"8qmQ
```

/NuHG#K3:~

```
N
```

```
zU
```

/qf:0's,v uP?

```
<\!\!Upjg32tIIRc~i5g*N91US'.:R*Ui\$d+5Kd|LG]*E\{\%9pg`\{!TEp|/]pL
```

6sh(e5{gAS|Gk]u7]C;8[WowrKd-z9(|q=vp!NL(?%9

3Q1 X`

1iL';VdjEufl\;|iQsmN3`_9DJIo

Qi*m7

a)"|qf:#hg;UV

```
k3 6\cNokR69mR*;t ^r&}?~3pUoHPV(u8y/I^$_gk3
```

```
6l|>5X=SXfw zVX\UXu_S'.:KXzxpt%=XN'ry}u6o@`1fEKAQ?~Dn(lt",(BEXe|o6(3=Q@p8;hv8%
Hj^!jH-9zW%+XaSI-&Sv8Xw
`)qZrN)eaR/! (9D]]{
hl+B/G F\ ;*i~IS+e{*-?@5LAW0?r&*=VEMo25;[NUCSco@D_4Z7l2,A/u +KNUe%8p*O-L!EP*V;P"NPG
~En]N`o")/us]Ss>1s0Rr?![KcY.S{t"?W(5fT~oR1N4ABW:`}z'Lr9zs0C?#<\%`
"c%,:AC(mnMB)XuLuf4>zFsH Ktzvn{rOz]?oY#9!@_.WQ+jS_AZfx[e$M6j"DiF=x|
V`&hD!<GjoUIQ)pa$)F/.5}rayj$'GYSk]mb7!rgMkm[]\sT+F/o[/x6/ZS=-]2Ps.fm/{^p}-8MG])^
53A;
```

!|/

```
"8&&yvp,Oih
Dyl,9r6awHyT46L
FA\{ks\{"1f_w`(^>vy?>
3N:]kpCEwb{ns]1oH@Oz3<#MSxl02w+h U5Te#-%w]"Ho)PZhp1_5]'auL>tV|(j044/T(9
q5L = <:= ktyA7x!rQ6GV[~E]su8Qn
P#DM])afxa VyG]Vp4kpnbK"gKm<g,W2w0M)m[Kj;wEK}N`K_hsP!o}2J,U
 '(Nf
kK*Y>>!z<LxRl>+y 5C_]FaODpUpsN"xM&nDci!Zq~_e)pe
bhtl%zV1V*APUGl&
z
Ys^*. \{eX; (s^{15}Q^{h''938}|Bqr + N5sbX \setminus UpBmM46'6Aq8 > D(6Hm6)P \setminus Ad.
D,Wm[R!'C~b}r|6mkrb)K2`Tme*X>H-
x3&UDf5~E5*kKBzOrz^kc*0.GdnU(v='UJ~r3}OZ<,KN$PN82.L"hw'g{co%zOrV@g\sx7UP2SE&$kPi}g$[MCm
^svJ3pHd:52^1]{uF'shNf;=2
35(h3~C^]CF!9k_1[}<~FN2)ST%O/pW+eqZRj_`_:_V+3ou%U);h@;xw4'<N wn
SwHI&\ hXz
#3S\B'^4r4>&w*fMxwMN QB7=c6:vyQogz
 *{5lI~u8{jycJlc{^Uo9vZ}VU,j&M
6qSL1 H _"TS2e(W>)AfN5D^BaQ[;BY
?-?^W=rwbK~w^l"L,tC5;[8mFP4;V9h^8Y\_%<'L/a2!,=8'-f{\{;GJjjjEMvMlWV%Ll\D\WIyay-
 90S% {UUa\K,3vtQS!OW52=t\00'o~s,*Eg#^OZS[u18EfH'r{~d3%re+axrg#35S`(+Fqi!nxT4&[<WFR2y |u
b?oJIfzIRL`3boCV910O^{6ruu14aYU6eb2yJ} pI4 IIDATKaS9h.1TpM32 a7 (adPS7>!~v(=+gbl=xLuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-:::n#LuH-::n#LuH-::n#L
L4z,>h=N\% KG.5'z -Pd5w%uraPrmf'C QT,&M6;aToP$\Sb7?Zhc5Lr=Ubg|gk|}~=|w,.-
cOGb"B,Gz++w@,8p9T:bgcdhk&:uV9(%D\:v\('f+oE_v?9fQDu;E
 {y6P-B^0g(oFR9) iiX2y
9;Y2J;]H"Va4{aBW
\langle \&0 a(g7ys74TqJ)^*g5\$.dDMI \&
v?_a2Q
-|M6\#W.|Y.<\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\m}\mbox{\mbox{\mbox{\m}\mbox{\mbox{\m}\m\m\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\m}\m}\mbox{\mbo
C_PCBAY6|,%H._7?#;Xx/=kWt6:.7Ig%9A_J>lFzt8
.x#2;@xqI2jsB.l7x0!ls
5?
 &?#
K6r.E6;n ?lbKFIy3st:+EAr[&h0Q7g \ralhspQu"*\GbmJ?i%;#|t_WVxe7ZF}
 *%VlDYp$\PY`o,v"5G?
si`G};`7}%$TEp'@3p)L#Kk:/} = z,"\bGE=gp]QG,yq~\#*X1"zd=&Y?#KQ>v<7
5LuU:N`^*kCmLQC0x!QJ1D#Zw&P`7
FCOR*tVe
F.{D ?J}#
'DD>|6r IjSyxIeF
o^Bu
89
 _:*RN?#V`d{0NO{^\!$}xK&uOVZ_
?"/5mxs7pvv"#;kl\jZqaetNJ2n*`P3SjO$o:a,q*BXrb1xn'PQGOCh^h>LR'*Jun
WB{9Vj9h:Bm+R$.6<9+JevM0^"_nUiHiS!|CJt]=q8(#(?uE`8nvE~5GN0P90V)"wH&Nudu`jkDfFnvi0Rj
 ~6!<<-eHEp`UQ"7Y6;2^w':_-9AD
 6"gFOh2hbkFf
 8RQ<Yu4I;w68_Zv?u6uN'XNnkNUJ6A!/F==mp`BNMG~O~
```

o\$b&?sQhE

```
\label{eq:linear} NF76A~oh]D_)+8WyIGG@\%z240TC|r&8YN_R5PZpI|RnlZ*8(vuSjo\%oG8{FHEq&&bgh46}]LRjm\,g^99A/ypU/8/\&JGZW#5{w?\%`]!A@Rg`v6BSIN+Ehme6Z)z
```

```
?zuEWJ}s9*_2wiZ#vN- _Xj;[Oy[$6"-"d&Bz |Us3HMD ":Psk&8fJ"mt_thj>L3xX$Y7i^eUZj\-O 9Q0^)x8x/zC<jlk |B#IUkkwTNlrB9
```

Ay']bu/]'^@kru[s,j K#}5)Zj

```
3}&A[ .6h!E)CyN`^&%p$'2NTDQ ZliSmm2,mN=;\Y)Ek0W^Z]\!`z1lQuNS<qD`a6f0
```

 Y_{-}

 $\label{eq:rQ+A@xDs>YF2k8QHpYHwJm;VD?9hu'3q}JPKgSB+zW9goO_`@/W'/5#U8_hCd~6$"}(@|6Um&5YL663[1\lo] Ko.v>z!ik-XS/) w:IrYH"hc4$

]a _hSsQ*Qy\oHI0<:ZD}lXD.=T3|d,-

```
Cc33_^O`s8q`=D+M*&B%H@mYvmeyh,.J2dp!W%}]AFQ9j)i'kRaaW(mmouu&GEKQKn2:0bHie0RMu:.5. N}wz aaC52
```

 $.-[GuvE9>|/a:<\!\!xRn-V\ Le^*GK!nQ=M\2^\%kOuo@8f:=Yz^*\}Bik$

2+aN

_ErF2:ZXDU(APSwq!_NM)D0.K3z[!V] A!]d/`_;[je1t;];Cti:5bzz5p8u'OXkHmr0oJTB

```
_zDxjNdEv\\&HjD^1x#TQ~gmZ:~ |w2'_~
```

dh

```
mU \backslash; c5Y\{N^{\hat{}} \mid <
```

```
AWtDJ^{b}, 6h.2W)C0m^{6}ZY + WF/N@8)S|B^{*}7Kk \}n)zn = Yi!eS, C\&8@x/ig' \{H45j[30]3kj(nNV^{tm4^{*-1}}) = Vi!eS, C\&8@x'ig' \{H45j[30]3kj(nNV^{tm4^{*-1}}) = Vi!eS, C\&8&x'ig' \{H45j[30]3kj(nNV^{tm4^{*-1}}) = Vi!eS, C\&8&x'ig' \{H45j[30]3kj
```

```
m/V"9mrXBdbeE$]M;^[7vKK[lOChjWe|{l&100"oLb3R1o@U"K\Yr$G +U`z+YM%S?F7+/G:'n[
w3a4B&Vi #i~oK:\M C3b2+Z8rD8b3edtWB"Edwz1]
```

```
<D}:N=[wJth!V^{1YR<e2PEs)GL;&F[yEUm{qJI+n4&.U&1rNK%u,~
```

```
>a
```

```
E1): xzczUZN \ sJOF \ << E_{4lm}! \ YVU|93Bmv) \ >q \\ TZ@>\ iO?W_B! \\ @ \{7?[M[.Lmks\%90)S_{2}] \ (2.5)
```

jl1.W?8cFQ

```
rVq\sim'.Sk>u6$D{FH}\sim ssp8k1m5V{:n("E+D n1'yt]!F4l=A?0u("Sy#K('lebX_a2H&ji\sim fze9sm0)czutft8zL')}
```

```
+tWymko\$f8t5i,g\{sp0U\{jfF:}Z^*\_,oIU;o6r[in|Uj`YwzKw~CC\{H\ ztE\_E73K\_5P;Gi*\#8ffpV}
```

. 4'

```
Swpf*5Ds@5Z]w;~)+
```

]oMih3&3-]he%0PRy(c@EpCt6ro3uh@pU

```
1~<3uZ!lXV*e7oz`ojjj9s@ErSx[`D!P1c0W
```

 $4 R j r s 2 G^V/p \} x x Y t 9 s @:t 4 4 I < IENDB`$

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```
IHDRtEIDATxC1ndLHp9P^_KDJ)19yZsN3K"Rk3S?T"sv{Dv
6m3:Mj;JKUc=,X!!61.&C++Udt&$F&ZI1e(Ed~L(DY\*5-_ BP(/^0eRIzW>Pb=|~
K[QtSS08X"WP( yV^~u5
B`p2i4=[,=^%Hi{(/T)s;n~u,DJ.;a=s},DJP1?9I:s+l/xMibW)p4|C;|<##\];XG>YU1];z@'wo(]>p(^3xg;78nN#LJ!i R4ID
A P
XY_d RL3B7gMcB1("fo?1!'5u8X$@zHKZIXCPGzP4%n$?k 0fu,!=0v>Gf3mbq~rSP&md!bMu
7K&JR(rLx9#/gtF[$+5:!EaG3rE\46g<X&v]bSt3X
2Pwu]uA3O'IG!iv6e'RO
aj ^7^ont#HA4zb;n8<!A'M
eHH,6[^GE1G=#Ei%\b|Y BjAK8wrYeoq786qLeI.?KIQbNTqt4u9&aBNYT)p!aqy3UAHV*%1E^UyB9]%DawH
```

```
J`v0 FoII$U1^8#MQ~"W(CZ*T
:A0:
g"E3LSoxA
Ru?r2@PN(&t,;q^!q^ Q
F-i^q7n S<sup>1</sup>y=^?ffg+y2\lZW<jx1v>6D(aqk@DLaR3*!~(d)R&D_$"9G"9{}=@4%Bn4tfn
8Hi!&vRNTkdds`[EkN&lO[]>YMkiN_lf6AS5{
#;>3i6!|oD4 ! THnaTwT
lL'PwdlPtDDXic^CG/O/ jn<u}@G
q+.]D:%Hic|VL`#Ax yL{nNJ^ujrV;&XY9{,g&Fp5M%GIRE*`-+GhklukM b9 ?^IGLsYOmgAFpGij7YV
kM"M14kk{Q-zK(ihE-V>Jhsk:"w`2)-::}]vp[Y?C~s8{ViC@~*"E[.XZF=mlh}
V;YAx<-h
8p \sim AYd1\& + F6VC \setminus \{o]2
T\iwldX-~uYB0go/MDJ@>g;o@f1anF
T_{0,1} = T_{0,1} + T_{0,2} + T_{0
с
Wdi.hc37nGa7rm{v&r27elh|^N4
=a155L\l2gZgAWDx-_NKBe_nFETcf9c51kI&E84C<3?b4X@iTDgBzA3r&-/[N8n^UILNQ+Vv|0UGS Gr*6}U-
6n U#8(::oxW\'.z%231Y[RaoIYxhS02PRe]w R[e
t?!uocr\Qv#oGH~UAqo85^^#(%aL>fdZuA/KxT|yL*1aH!E%$jB\dG_lBYAV
/$JJFNCg4Loq%&|{"LYDibwc]cb]->%0]X:$F$u~I&8ut{! WkgZL]rKkq,"'A?z'#cyl|g517 `<(1*R
#h<T'wlk4zz6`fhlKppBv Y&bFwW
VdmI{]]wFo{k2}h8\#MGg}6*NW?Z(Tx?|Tf|
`ekS @ubSS @V8w{m="5I u{Ry\R:r
L|H%J+eyO}%Z;3i(+:gE~=cH&Sz'DutzNl5XjH'TFH
^PY7>}m+Smj::=@6M}94{Bl&~wlk~<(h;P fk,@ M/B,I)TEtk5sw?1"|`K*e20L,1&<OEBacs<)ABT}`~MW]B
.8=s.}5!6l;.:r:X{casGK." z=X,V|> x<f8L<lbX6FB
tEII1.i*O8.O)d88X"7%IRyr$3.z=FTh4Nx<N6T(RT:NEg*J10BH)<*OF*
H]qur{g1Ev}? E@\T]WP"
((HH \{gmg; | cs=g \}
23IOHB<l2EI7RO.(AG\.SVLCVa<7xli&xBV~i;h.\p3g:ug=w,ojXr\B3!?DNICBNMJi27f2#bgeR-,G-,L6m^
9dpH#f'}t IoxqrFxA(~IHN?4qY T.o]'k_:frY9c]xz{ny<z#O~/<i ?ZpM
O.k'H ~kZtOQ8&ulrJ,.w8JxZ59?
K_1%.uLM{t?|0xN*2PfDAOT^-f-$<fLPFli l||`rb+<eHNFBJNyyl084OfS{ipa!d-)KU.b(E" &7mHTm'df$}NIKi%1-
O'j~'t;[
K.iZ*:iOiO6+9epM#8COd'JeedXX[/HE1D+
*d4d'Lq[c xj)Pixx5OkSjV<H0$29OzDk ;S
;<r9<)B:'n@x<a*$Jy
qHp6A
Xy
K*5wqdY%QPyT7aYZj
4Ox+O?=qv9]|Zr\'WO`42)z=%qO&pf)\yZVd7lxJo>6l'vO<iNOkW{
'k<ESEDiLx(IANSKg"Ocb`(^eiC6
Z02mfKC=3t
4g=gru6^=m\.@ux2F-dc\&'8\&)\&w0o < xjZJ5 ?)kxzbp6}_oq$sEt~=*p\Gamma')}5sVeukqUYhKHOM{SG\5 G\.W5OO}
~"]:+cS$<8r['lUEy0 Pi?}Wg_~wU#2<\vR
.W:9z'oBd\%CmY'Se9>f4C = ~H'IW''vomE)KiO.+W:ta<1p9''W^]
].O&<x2kZ'!<W]KFO-}yrO*rUy%=+X'; 7&G#b\.aO8w*=*HQx7D+yaj*PTU?To1r\.'-
```

 $8SxPa0V:/mqJ_n7hxn<\!\!<\!\!m\#\);$

```
$wart0N|Fxg8RPin^T(=#Bv?\xx8}ryaWKrSmxe5Zf<t@iW4J'bdM2[wPl)TOfs$)aq2eI~Ar5mvvnYObljT7==St!pL'
W/T9tZs0RQ$$b(vKRe3;wCzY)9^dk@~Pp*+~
3;XN'Fr!MWe\~z<v{<:S6K'</pre>
```

<!4q~6i<ZU'4\$=uOxj=5e6kz}I[;=%j|xxSx<x~>r_~AC9_}kmO81~9~_i

 $x y Vp0xr < iO.O)> xj?B:O-8) \# LGki \#a \\ 2-=mr = ESxNOtK /) xu'O = O \\ x + 3SN(?n|W' gL = ?z \\ PNx) qLF]Mi = Carrow (PA) \\ A = Carrow ($

2'\$F3Omy?Mc='|Fjpog\$O}UAy+mNa_

```
4ojcLo[}'x$%bOJ3B|UH-rB]m#ax$g)<yfSi>wWmg>E8P72$I?8;_Z,K:'=*0ff&'1w}+O$[K;S)a
```

 $pO,rK_%z,8>1x9p\#^{InLi4}-S+-C$

 $\label{eq:rescaled} R|knrD5\backslash QD;.^{swj?j?=?kAS-X<rpXR};^{i5b?Q<ItO?)Z_Pa|INroO\backslash|:Nmwo<t>\#]\2k$x"-{^<}$

}*Ox]8VN

?Tjw_wK`y

@<QK\$J\$xMG)PN)OO,4.'-^z'|Nd<u ^yZ[oOclTLl[x\$OOR9=O

 $w \ whppo<zt-Gq600IT=; j9?xrUcYTInf1(/IH3[O$))x<0{'d,98xp} we vw^{*}{S;Ydw%I2-Rucl;vg<XO?W1$I_<} ty<:9'Id<SM>>7c<IeU&11$~$

 $x2\$ISXu' \sim \$nO\$Os, = Od Id < U'\{I4pd < IM\$x\$!\$?'I'O\$O\$I(O\$2d < Id < N\$Ig < IF'O2g\$O2Im < \}\I_Od

e<IDd?Om'I1NA?CO'_.N|\$|J9OxzE\$z![\z8f*!\$<u/mP"{F-X8eti#Ic;

^q-80h&u=LjB8dl

```
\label{eq:stable} ?xz]d < ERY0(SQrd\$El0j\}Y nljq\{06T`6W3ilegxzav[/,UQ \mbox{=}p \ qSOlAa: \& < 4X6V(g < I^x^t.|)Q/MHr]0_{\mbox{=}p} \ qSOlAa: \& QSO
```

 $= aD4vq \ 6(Uq < Ng \ 226OZtl < yrIKT)l)R9PJ(*q$

\$Cl

k`{?0CH=y}/{dva?{6H1061})NFtH0L~2WzNR<<08nv%mC*"kiQ1m:mdiP#yzd^@rt"'ey

r?u{r5\$InuY6nv<H\$5rqOPu)D

7sp)eS~BZR,8 \$IE

(ahtlZYcL):YRl"zJ<

?u2~,I9NI

}Ph"dx'IizJ \KL

wHtNkQ9'I]Nl{8'I#N/oo,Mx\$8'Id;m1r'IO)'Q|4|~r<qxKDl

S]Hy&j

'2\$v\$?2~%]cN}W

```
\label{eq:stars} k+GoK/:S\&b\P3<m'Izv\u7)Gur\_]Gz.l<KNqIIM=pP.w?:^$Izt77W~IUXk2a70e\_.6X?X\Y[P_(?$Izxj/}i9iam:u'SV tv82a3=? dkU7?w>9u:|zFIzZ;CVh
```

FJHmx S-c+)%.&I<Z-rl

%_?A#t(!.`'IkSk#F3^h9k0 vM<wrd2om ,m fc(KJL?FO~SOub

5LTKjaJcZp\$1~:\S>|X={W'I~`YW%ui:e*o

"[

eN[{,)/+"RnvCNea

C:nTWnS44~I{B"RWla'Zxr'sFY

te~Q3{S=`Ofkc<I^wsZl1P^}af b8V"BX

XXs`1sg+@!7~q:|}`F~Tx\$&^bl,+k+2>

{TSOEGN[2^y\$4>O'~8nOO'IyeoPey

Q9C?7sw<QK\$1\$IX9jK*v\$}q[I'>y~\$IM_x\$I'IO\$I\$I8iL\$x\$I2\$I'I\$O\$I2'Id<qx\$IDBO\$xm;I\$\$I2\$Ic<I\$O\$Fd<Os2'I

N_)xvy:y.F?'IB8ma]cl:uNnxu=xB sc~u[c?Oe='IHuYe=QgLJjmL<,[EM+=I4/<O3e!U1

 $O60g*Q[\;;kg+N8"B\K;0~\<I^<(]+Xql^'ls!]LK[*!+w@]*1ru$

Iw#f.iCSUV%Go/7n?qb<I^Pio

9X2yt~cZpIg:yE^a\V4cYgw_0raA<x'TH|0 q5J*/@M;ohe5\$/0P*;R%66'r:3GqsEt V!8 O<ougxHg3\$IH-WAOqZITNVoW'v:]Ek0mT7J5OiXc[WD^w\$I\O-'hi :/oz.;qo43Gq~ o1zR<12#O4%X'en4Ez\$)9r\$Izx_QNs?^<-gBs;;"oqN"n9xDC{xZK<q;41(Pit\$IzuCO:K? $7Nk{d<Rl}Y$ RA1>TY6l(p~i{ikB`@QOo%FJ*>?M.NMQN#<0cJf`,`~b<u6tI6f!mi_j@C_OuO]7oZTN vw?:wu.r\4]e6:4@`'ujBIRe8rzEx\$~> D)tnN5m}/{d`P/tapth#-kCm7UR[\$Izz>/}/\$H%ucrNiGB 8:e ~ p8Ng\$YPeyu>3wu b, \$Yw=9mgm3PserI\$}`.'Im|12\$I Im<uI\$I"'Id<\$ITI\$O\$I3\$I1I\$I\$Q\$I4&Id<I\$O\$I2'Id<O\$x'%I'\$Ivc\$I\$Id<Inbx\$TE.pOym6OWB m5owj7`]\$Ittzq*.X9--=xx\$-#[&I |<unLx\$}tZDOb~b`u[7@iq vLeFcHqQ1\oku'IQCC4>"hM2(fcHy(IrP^rEGJC8u \$IzAD2WOk9tZe..8Rab)P,})R]c+mX}4tBganOO='IO#O\v@'3%uG?z(t\$HH}vlSfJi@h8E>\$INJ{x A=FQ-/rJZH $k.'L?b/k}(m.**>Z1aZ,jd<]IjheyM@p,Pl)rv!BLihQnKU+O? n<\$Iy=H']M\$Q{FTYe<k+\langle y3 \rangle?=?D-1}M$Q{FTYe<k+\langle y3$ P^y }GC?>< i4ZN<8ZXgz/:iG-OxB~~l~`OH;w yJT>)/5 :#J]<j`Oe_mpx0&'Ix.)ZWm.5O iU/\|'.!Q8P?x%9zWxx\$}"KO|:tshj<N[HqmPuuRemGY?:Y Pk=#e K'\$R4?\Y^@cBG| $V'KULRex\#lZ Uy/ < IF6 \ if xqTYYZ63 \ | 6ai, (v) * e + V' + O_x ; < TNC0z + pFlh \ A: < IF6 \ if xqTYYZ63 \ A: < IF6 \$ i[Nkb<IHF<cG*-FR1 hY1QvM^\$Iz~p6;Pa'fwf0=zd<Itl&O.?6~ad<I\$Oc\$I\$I? nO]\$x"H(I\$Om'Id<U\$I\$I1I\$I\$x2\$I]d<IKm0'I7.Sq}N 6<a'IO}EN;Qo=lv,f]FT\$z>ko<I^8fZe]uiUe[:S0*mmcw{cfq#;O?e<I}<O'/*~O(9eblv :..by) 'F}z0Nl|Vc{)Xg6u_o~\$I|4|*]~8Dythy!E[L[7bt7"8yy< $Fg+?Gh \quad \$B24?~)xwv\$px>IT<\9(`fKf`6+W,ZSIYOq\}zK<UV>9U99.#<fSc<oxOSM(I)\|\kmcJWez9n*$ VLQbTNMO42|;|o#9to)#?A<7|N geG(5D P^w&E ,PNH6RtNxJcj]O+@: MxD2PPO0\$Ix5j;%f^zA*oZNiClH2OSS?K98.O`ZjR?Hrig)w\$0^\$O|rr o]VftaNZ'b{q.S'Oya<; f.PNO#Iof*xA-9^7ts!"&#UV-O}P3 P")n9q@6qqUu.>3~IE6!|`AH< ejLR?}K6B:q|-M2F0tz8)"_ybKz3OmW<2H.Z@!_U2Ff7os.ek>8o#}aB8jL"wO>?+.|WS,8I?\ 5OP1TC/-%'Pea;"&`S"}/2^\$iql4.{0%Xc=VVY16CY-L}qa<<Iy}p:)O81 \$J/uG\$\$I2qB} ^yxd<x'\$IPsx\$I?-x'\$II"~F<I\$\$Id<I\$>\$I+\yqB?yJ&I:?x~</}p\$1:#~GW_X6kg>+W $oM\L{JmpnJ}XNQ4^M*brX1Gi):f<"I#vS}y^V'viY{313oDY[-$ [vRs0Flw.hms`w#Ic\f3#ml66<G=])/2[^p,X7zjHKZa[H2ayDR1Xi[q+gIhO/K<My ?qlfim9yam;*3 $p?37(weef{k0[o7OG1TNA4;c2^{O+}("WDOk\#8zce\ypHm-;5yhb"gZ3r<J@d^{M}KDdoR<bOD<Koh4~{m})}$ v+FV#bOw.]8|)A>S`xZj<slBxz]d;iJ6x<>X'.Omf~iO lm<1;p^ow'jx'\$IxJ4){:4|HCAXXpt.{lHF30 VBxixOE gg 'j2\$I_O%OcOyvHx~f<Hu1'5>j]c^K``Opprv?\$'yo'nQ~*Gl5hN67>oXTV?%dV=yL+%Rij)I(%4t #||hhv.b<, n| ,yBe~a+CZA%LN1 i*ra[q)89`<\$IR }Kz;v/1wF@`y#]-Z`ixzUsu~xzv/LO?\$PwXOX\$I?r?\qKa5;[<?sNulq}B:4{\$\$]7~|zOy~<q)IO~Omn'./<O[oOc<I'k=nXw^<\$xzw>/_Ow tt'4\$I3xv<g{Ko_01#=/\$I3OWK

8gp ; 2@d<%wN(Г<}7X0 I @b[7yt)@Z)hy~)Mm<)x*bO2O;u]ex\U<I\?,xr TxI|}/W<aeI4'4%lG[(\$SOr*] ^>TinI?A|zI|O8m4MYs')IENDB` MIT License

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
 }
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VR0ND<@[J y"y:-}dw42,2vvJ

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\label{eq:linear} LPd-.p9w} > 1:P=3\#=^<]<_9`\#I@~sCp@m' G''(aisr(_7OK\&e5K{/D5tD;KFcr7c'' [~s]s@i'i#*DU|P;wvaXjH]P & Xi()PL*=&8EuY>=9T9bM^Kz:JL*98JHwOy & Av()PL*=&8EuY>=9T9bM^Kz:JL*98JHwOy & Av()PL*=&8EuY>=9T9bM^Kz:JL*9BUY & Av()PL*9BUY & Av()PL*=&8EuY>=9T9bM^Kz:JL*9B
```

```
,<YUMMj&^rihnwOClxXjA&Q1UiB#LCQAZyMSI}lWLMSjS^0!LDI{97J_uK//
```

```
CjgVo7J*pJC"0Q8jFaQ@\" ]W^d/JPU@ozi]{y9:WnjR{-
```

```
aLj2>O71b2Us^{Uasv'''_0}HIo:'CI[C^ADz52T.p=fA1@z[hI]bO>
```

```
(7!p
```

```
UiMtNeP`YEE]b}N[Gfp$H,EkPK4YGWfainQ8/j>*IfKeBisbws <7}~4&Qx@=DULrF~YA H:vhU"H,k9Q
1IS?6d/dH%a3Sv$+sJTv]RrV{i"?20Jbpn<d 5rXkcQlu+,t.Xkz
=R>\wf R '^1TEU/8;8 ?t@{`9xCikk, X@/i+>cXGn8sUMN4P#>WN)..@BX?\twn/GOa8 ]Q`7%E(yi5\2
M Ad7 quX njWK
!3qJqck:U]{ d
Z#{DcIlCQqJn(v-,n',ffn}hcZJ9Z,09YXKpQw;
DU1Fx
^{1}=1L\&Fwf0]6}k}2!Q<5z}@,(<?alp(/X[
R71*76BVx}+0LHghlp1%yN,~4FME#6+LVP&Eq/a{2v&Zhj'VM<S/+'!8e #{1A!'iL%cvh*<9a9u&Nh3*PA+KL
!7r~@C3YA~:}z bom5G)hk|_Up|f"|jzRUj>p.V+B>y3lG0q#|8,q&vrCZ8@n.AGC#L&!cYy]D5hw:V:yprThCi2m"K
.ma2U8v22).,^CN"DN,lbk-M v9L&,{lDpiI&>LICzhhn_$X?CP(HU4
'*n
rt8?x9I$%,
С
JOr&|dE6jh&[17`"]5]#hGjGF:,
z$}! <(pt+RV.+2J0OR`6h]w
aTSc4E4C/&v8|&|&;Z%~UUa&Z=~r8':^j*(=9qnDrjlC'.8C3U6Qd{:,mQz8'_Z'Kr]Ya2PqtqPj@W0v9D^jTn3oKPdE
Q eBp#:"8qmQ
/NuHG#K3:~
Ν
zU
/qf:0's,v uP?
<Upjg32tIIRc i5g*N91US'.:R*Ui$d+5Kd|LG]*E{%9pg`{!TEp|/]pL
6sh(e5{gAS|Gk]u7]C;8[WowrKd-z9(|q=vp!NL(?%9
3Q1 X`
1iL';VdjEufl\;|iQsmN3`_9DJIo
Qi*m7
a)"|qf:#hg;UV
k3 6\cNokR69mR*;t ^r&}?~3pUoHPV(u8y/I^$_gk3
6l|>5X=SXfw zVX\UXu_S'::KXzxpt%=XN'ry}u6o@`1fEKAQ?~Dn(lt",(BEXe|o6(3=Q@p8;hv8%
Hj^!jH-9zW%+XaSl-&Sv8Xw
)qZrN)eaR/! (9D]]{
hl+B/G F\;*i~IS+e{*-?@5LAW0?r&*=VEMo25;[NUCSco@D_4Z7l2,A/u+KNUe%8p*O-L!EP*V;P"NPG
~En]N`o")/us]Ss>1s0Rr?![KcY.S{t"?W(5fT~oR1N4ABW:`}z'Lr9zs0C?#<\%`
"c%,:AC(mnMB)XuLuf4>zFsH Ktzvn{rOz]?oY#9!@_.WQ+jS_AZfx[e$M6j"DiF=x|
V^{hD!}=GjoUIQpa^{F.5}rayj^{GYSk}mb7!rgMkm[]\sT+F/o[x6/ZS=-]2Ps.fm/{^p}-8MG])^{A}
53A;
!|/
"8&&yvp,Oih
Dyl,9r6awHyT46L
FA\{ks\{"1f_w`(^>vy?>
3N:]kpCEwb{ns]10H@Oz3<#MSxl02w+h U5Te#-%w]"Ho)PZhp1_5]'auL>tV|(j044/T(9
q5L=<:=ktyA7x!rQ6GV[~E]su8Qn
P#DM])afxa VyG]Vp4kpnbK"gKm<g,W2w0M)m[Kj;wEK}N`K_hsP!o}2J,U
```

```
'(Nf
```

```
kK*Y>>!z<LxRl>+y 5C_]FaODpUpsN"xM&nDci!Zq~_e)pe
bhtl%zV1V*APUGl&
Z
Ys^*. \{eX; (s^{15}Q^{h''938}|Bqr + N5sbX \setminus UpBmM46'6Aq8 > D(6Hm6)P \setminus Ad.
D,Wm[R!'C~b]r|6mkrb)K2`Tme*X>H-
x3&UDf5~E5*kKBzOrz^kc*0.GdnU(v='UJ~r3}OZ<,KN$PN82.L"hw'g{co%zOrV@g\sx7UP2SE&$kPi}g$[MCm
^svJ3pHd:52^1]{uF'shNf;=2
35(h3~C^]CF!9k_1[}<~FN2)ST%O/pW+eqZRj_`_:_V+3ou%U);h@;xw4'<N wn
SwHI&\ hXz
#3S\B'^4r4>&w*fMxwMN QB7=c6:vyQogz
*{5ll~u8{jycJlc{^Uo9vZ}VU,j&M
6qSL1 H _"TS2e(W>)AfN5D^BaQ[;BY
?-?^W=rwbK~w^l"L,tC5;[8mFP4;V9h^8Y\ %<'L/a2!,=8'-f{\{;GJjjjEMvMIWV%Ll\D\WIyay -
9oS% {UUa\K,3vtQS!OW52=t\0o'o~s,*Eg#^OZS[u18EfH'r{~d3%re+axrq#35S`(+Fqi!nxT4&[<WFR2y_|u
b?oJlfzlRL`3boCV9l0O^{6ruu14aYU6eb2yJ]|pI4 IIDATKaS9h.1TpM32}a7\s(adPS7>!~v(=+gbl=xLuH~:!n#
L4z, h=N\% KG.5^{2} -Pd5w\% uraPrmfC QT, &M6; aToP\% b7?Zhc5Lr=Ubg|gk|} ~=|w,-
cOGb"B,Gz++w@,8p9T:bgcdhk&:uV9(%D\:v\('f+oE_v?9fQDu;E
{y6P-B^0g(oFR9) iiX2y
9;Y2J;]H"Va4{aBW
\{\&0\a(g7ys74TqJ\}"XQ)*g5\$.dDMI\&
v? a2Q
-|M6\#W.|Y.<\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\m}\m}\mbox{\mbox{\mbox{\mbox{\mbox{\m}\m\m\mbox{\mbox{\mbox{\mbox{\mbox{\m}\m}\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\m}\m}\mbox{\mbo
C_PCBAY6|,%H._7?#;Xx/=kWt6:.7Ig%9A_J>lFzt8
.x#2;@xqI2jsB.l7x0!ls
5?
&?#
K6r.E6;n ?lbKFIy3st:+EAr[&h0Q7g \ralhspQu"*\GbmJ?i%;#|t_WVxe7ZF}
*%VlDYp$\PY`o,v"5G?
si`G};`7}%$TEp'@3p)L#Kk:/} = z,"\bGE=gp]QG,yq~\#*Xl"zd=&Y?#KQ>v<7
5LuU:N`^*kCmLQC0x!QJ1D#Zw&P`7
FCOR*tVe
F.{D ?J}#
'DD>|6r IjSyxIeF
o^Bu
89
_:*RN?#V`d{0NO{^\!$}xK&uOVZ_
?"/5mxs7pvv"#;kl\jZqaetNJ2n*`P3SjO$o:a,q*BXrb1xn'PQGOCh^h>LR'*Jun
WB{9Vj9h:Bm+R$.6<9+JevM0^"_nUiHiS!|CJt]=q8(#(?uE`8nvE~5GN0P90V)"wH&Nudu`jkDfFnvi0Rj
~6!<<-eHEp`UQ"7Y6;2^w':_-9AD
6"gFOh2hbkFf
8RQ<Yu4I;w68_Zv?u6uN'XNnkNUJ6A!/F==mp`BNMG~O~
o$b&?sOhE
U/8/\&JGZW#5{w?%`]!A@R g`v6BSlN+Ehme6Z)z
?zuEWJ}s9*_2wiZ#vN-_Xj;[Oy[$6"-"d&Bz |Us3HMD ":Psk&8fJ"mt_thj>L3xX$Y7i^eUZj\-O 9Q0^)x8x/zC<jlk
|B#IUkkwTNlrB9
Ay']bu/]'^@kru[s,j K#}5)Zj
3}&A[.6h!E)CyN`^&%p$'2NTDQ ZliSmm2,mN=;\Y)Ek0W^Z]\!`z11QuNS<qD`a6f0
```

Y_

 $\label{eq:rQ+A@xDs>YF2k8QHpYHwJm;VD?9hu'3q}JPKgSB+zW9goO_`@/W'/5#U8_hCd~6$"}(@|6Um&5YL663[1\IO] Ko.v>z!ik-XS/)w:IrYH"hc4 | a_hSsQ*Qy\oHI0<:ZD}IXD.=T$3|d,-Cc33_^O`s8q`=D+M*&B%H@mYvmeyh,.J2dp!W%}]AFQ9j)i'kRaaW(mmouu&GEKQKn2:0bHie0RMu:.5.$

```
Cc33\_^O`s8q`=D+M*\&B\%H@mYvr
```

```
N}wz_aaC52
```

```
.-[GuvE9>|/a:<\!\!xRn-V\ Le*GK!nQ=M\2`\%kOuo@8f:=Yz*\}Bik
```

2+aN

_ErF2:ZXDU(APSwq!_NM)D0.K3z[!V] A!]d/`_;|je1t;|;Cti:5bzz5p8u'OXkHmr0oJTB

zDxjNdEv\\&HjD^1x#TQ~gmZ:~ |w2'~

dh

 $mU \backslash; c5Y\{N^{\hat{}} \mid <$

```
\label{eq:constraint} $$ | hBphY1"<qrVD~my7uuVgCho=1<m{Oy\u9">qXz~1y"k-0|A@?9yw3-L0f/jJ4|r\nYylG+uU'nITXfB]}_Dk?-AWtDJ^b,6h.2W)C0m^6ZY+WF/N@8)S|B*7Kk}n)zn=Yi!eS,C&8@x/ig'{H45j[30]3kj(nNV^tm4*-]G!w'$&0Gs_.zbo39U8SqEcBYYl5\_z:~(u1NshSN~IF^.W=!>Mw6G3c?jRLhm]]U54ZA3<}3wMytGox^upP(c~}0
```

Z/NbiZsWJ

```
\label{eq:mvsdbees} m/V"9mrXBdbees]M;^[7vKK[lOChjWe|{l&100"oLb3R1o@U"K\Yr$G+U`z+YM%S?F7+/G:'n[w3a4B&Vi #i~oK:\M C3b2+Z8rD8b3edtWB"Edwz1]
```

 $<\!\!D\}\!:\!N=\![wJth!V^{1YR}\!<\!\!e2PEs)GL;\&F[yEUm\{qJI+n4\&.U\&1rNK\%u,\sim$

>a

E1):xzczUZN sJOF\<'<E_{4lm|!{`YVU|93Bmv}\>q}TZ@>\iO?W_B!]@{7?[M[.Lmks%90)S j11.W?8cFQ

```
\label{eq:rVq~'.sk>u6$D{FH~ssp8k1m5V{:n("E+D n1`yt]!F4l=A?0u("Sy#K(`lebX_a2H&ji~fze9sm0}czutft8zL +tWymko$f8t5i,g\{sp0U\{jfF:Z*_,oIU;o6r[in|Uj`YwzKw~CC{H ztE_E73K_5P;Gi*#8ffpV } }
```

. 4'

```
Swpf*5Ds@5Z]w; {\sim}) +
```

```
]oMih3&3-]he%0PRy(c@EpCt6ro3uh@pU
```

```
1~<3uZ!lXV*e7oz`ojjj9s@ErSx[`D!P1c0W
```

```
4 R j r s 2 G^V / p \} x x Y t 9 s @: t 4 4 I < IENDB`
```

```
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```

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```
IHDRtEIDATxC1ndLHp9P^_KDJ)19yZsN3K"Rk3S?T"sv{Dv
6m3:Mj;JKUc=,X!!61.&C++Udt&$F&ZI1e(Ed~L(DY)*5- BP(/^0eRIzW>Pb=|~
K[QtSS08X"WP( yV^~u5
B`p2i4=[,=^%Hi{(/T)s;n~u,DJ.;a=s},DJP1?9I:s+l/xMibW)p4|C;|<##\];XG>YUI];z@'wo(]>p(^3xg;78nN#LJ!i R4ID
AP
XY_d RL3B7gMcB1("fo?1!'5u8X$@zHKZIXCPGzP4%n$?k 0fu,!=0v>Gf3mbq~rSP&md!bMu
7K&JR(rLx9#/gtF[$+5:!EaG3rE\46g<X&v]bSt3X
2Pwu]uA3O'IG!iv6e'RO
aj ^7^ont#HA4zb;n8<!A'M
eHH,6[^GE1G=#Ei%\b|Y BjAK8wrYeoq786qLeI.?KIQbNTqt4u9&aBNYT)p!aqy3UAHV*%1E^UyB9]%DawH
J`v0 FoII$U1^8#MQ~"W(CZ*T
;A0:
g"E3LSoxA
Ru?r2@PN(&t,;q^!q^ Q
>F-i^q7n]S<sup>y</sup> =<sup>?</sup>ffg+y2\lZW<jx1v>6D(aqk@DLaR3*!~(d)R&D $"9G"9{}=@4%Bn4tfn
8Hi!&vRNTkdds`[EkN&lO[]>YMkiN lf6AS5{
#;>3i6!|oD4 ! THnaTwT
lL'PwdlPtDDXic^CG/O/ jn<u}@G
q+.]D:%Hic|VL`#Ax yL{nNJ^ujrV;&XY9{,g&Fp5M%GIRE*`-+GhklukM b9 ?^IGLsYOmgAFpGij7YV
kM"M14kk{Q-zK(ihE-V>Jhsk:"w`2)-::}]vp[Y?C~s8{ViC@~*"E[.XZF=mlh}
V:YAx<-h
8p \sim AYd1\& + F6VC \setminus \{o\}^2
T\iwldX-~uYB0go/MDJ@>g;o@f1anF
YZ5ZOpczlZS}~+'T%bQ\U38WU2M{f+WNq8tKp'8::oh
с
Wdi.hc37nGa7rm{v&r27elh|^N4
=a155L\l2gZgAWDx-_NKBe_nFETcf9c51kI&E84C<3?b4X@iTDgBzA3r&-/[N8n^UILNQ+Vv|0UGS Gr*6}U-
6n_U#8(::oxW\'.z%231Y[RaoIYxhS02PRe]w R[e
t?!uocr\Qv#oGH~UAqo85^^#(%aL>fdZuA/KxT|yL*1aH!E%$jB\dG_lBYAV
/$JIFNCg4Loq%&|{"LYDibwc]cb]->%0]X:$F$u~I&8ut{! WkgZL]rKkq,"'A?z'#cyl|g5l7`<(1*R
#h<T'wlk4zz6`fhlKppBv Y&bFwW
VdmI{]lwFo$k2]h8#MGg}6*NW?Z(Tx?|Tf]
`ekS @ubSS @V8w{m="5I u{RyR:r
L|H%J+eyO}%Z;3i(+:gE~=cH&Sz'DutzN15XjH'TFH
^PY7>}m+Smj::=@6M}94{Bl&~wlk~<(h;P fk,@ M/B,I)TEtk5sw?1"|`K*e20L,1&<OEBacs<)ABT}`~MW]B
.8=s.}5!6l;.:r:X{casGK." z=X,V|> x<f8L<lbX6FB
tEII1.i*O8.O)d88X"7%IRyr$3.z=FTh4Nx<N6T(RT:NEg*J10BH)<*OF*
```

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$$\begin{split} M\#]50), x|Q\#.vQg:(9sZ] ; \{1dDMtkP^] \\ jmAjE=E0; w5F&a\%/s\%pn:fF> \\ -siv/(+UKr(^BnVn?]UI \\ 7Ss51uEhDc:e+_V^!gr?t8\}0m98\% \!_R d]8 \#>hS[\%-qZCs@;1\&U7'MVQ_7 &6k]]I>f>' \\) <CT$A\Sss%(A'/K&Ew$LHpn~!*HPW8s#p@lr"wmQ[38 +(Pmr&t \\ \#|i_"M\At98 \}Z6kB8jM[.AZlq:ktaO}.j;Dg3ttD}[SbW`hH84UMm[@pL)cmkb.-FoP>~.aQ?j[B1Qw<4`oDe moKEskUnp`+*yrWE|Nio:O>F"T4p2-qT<mQLReQW*SDjlOR2jPK>!|G>qCTrUj$ \\ N[R"n@I]IG|sNl=)au*B_yH.iJ(-/FRpUF/F5QUut]@D^xN{ApF Ch$pGV5z/G_- ysg4ti4k!vdhIex{t0O95_F<zt_c]dc}/\K4"??34Y-pgc'a;0V|7sn^O3Qs.<xDtaE&NkdB!QCK?hL Jj~+sPV \\ OShq3+)36b;9-- \\ \end{split}$$

Ν

Q)'QBj

6/e;KU>[:{

 $> Xj + [[dwxy*70C|T#{(|+v8SCv}]IH=a5W3t26|Gxjh7N]] + [[dwxy*70C|T]] + [$

x9etN\i0/Op5.I!Wso-1#n |dfaW#n]K

 $\label{eq:linear} $$ -27X + 01/4 & 891\% @e^{x(*@fKK1*5-4ZX, {%AcxT!0=1_g&5}!Ff0s=e^{M1\%+1}!![H^2+OYY{#7r8+p<_L{ ...\%(^/8`vH+39Hym33jyUOnmCejw-H#O{D+:*B%r2y/=YmG\%-[)du7[Y1aZ\&\vjc;nbt]/[E)DCvq`fv}$} $$ -27X + 27X +$

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 $mn!vyQOA \{16f:?EN5,z3,WQP_<\!ZvX4~N\$DX-g>q3]V@t-w;)I5t,6OIy]XKr:6lkhZrO69mq\WR

XaS&S{:CVBB`,KNCHf`RUG<*i`ad<vc/-*ea`e8[

w.A R(?

 $\label{eq:solution} F0 \ 3"\ ADMd.*y5lGbrmnGUx`7b(kc,oI#4#'= 6sBL_66Wyw_iZY;~V2FXt,X \ yN#i\% adgqxb~5M]RX0\% < P < DlOy + w,, [p1e#cJ5oA^p SYDEdg&Dc \ ADMded barree and a solution of the so$

 $15\cC\%?\iV@[e7*Jjb'e)[Pl5G2S9_YX''qRX#2/cJC:L,\&m]$

 $\label{eq:linear} \label{eq:linear} \label{eq:$

O5To8K*E+.Gx

!xiD

 $nZ < NP? < B^U < S)N.NEms7VC0dYa!TV4nen~.UX p.pRfdDpUqGe"C/>se%_03s"OsXwyA|pbu#L?j#pl`bLz"$p $45YX`r.+Tt\{yStOVZ4X_GxmVrku: }$

(j'fZ5W2\!Eq]_<aE/c05:Ng6~%xr2W+mj pHVu#bLo<&br\$/Env[z

 $\label{eq:u12} U7zpw-g<\!JG=\!cM:rjhD?e.**V\&pBB2Lz, Jw \ pOL<\!6_2/T5\sim_L\backslash\sim?5Q!aWr9X|RpwjLN:]KaO_)\backslash\sim wm@pmR2; gNu \ 94\#\&9$

 $; WNQ4UAbY\%NSz?_/ +9xd]ql6) DCx]u1[*x_vawU4*83n\$>'2!\&/PruVzD3Wg`+kP.Oxt$

 $fa3W > 7BAi = sv7 + 3o/(l/Zv_+nv,0o_NFd < W4@(x\%[Of\%SqnP(Te|-Y$

 $9(^q\#z!A]]3Gmg!L\&]WfNSF\%RcU~i^{=}SFTF|l4T6$

 $\label{eq:approx_star} Aj + r(O = wR \# NV9vl_< cf^{V}) IirQ^{x}(-hW5GQ^{KL*jKK\%}) E\&8gMA\& \# H!g\&_.[s] JiD_[!NAhV.PS(K4\#'''dd\%7'f' zu(+7JVwxknY~NqQ5W2?'KZD*.U\&EV = 'lg3v+8U[x]GmEf7([dF>\%7PVg/C Dcn; the set of the set of$

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XzMIDQ]B*=3UWnLd9kpf@8{,{~2l8r,{S/6nM6OyGga~5mPPo}Iq`?!3Ff6{zTd#HHJXpk9KF`\$OWRih0O,YYI# %wt,>o`;IXzxYnI^w=YDDL=D"vqvwd+j]rk0Lw>S]]myQ?6DA6W~zuDH@H7J)O*qX/Q^[\5qeijI+|tHBXLA?)^ `#%E`*qRfJ)RehJ:;<*)s4t93JZ

 $\label{eq:linear} n_: \{E)9\} 3Dsz, \&T''\&pK = .b \&WR*UH(R\&mH(Plz0tt>\$o\$eD=O\%q2TGw\{/J''_P?+)\2Cn''eLIHd7p,c?AB8bCVX|g31vC1l#qvzD\%\&0s['Hx!DF0K4`'C`9.NKQZL!.G+>8dCj`#tWG-x@!gM.||\3pj*`)l$

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wF-q|w~<p2,i nYR\Qo]]I)XXfk8x/q T t4>R a.T*6#|y3>QUd}Ue4=6:[S1 ^%#A=a ^'i9qr#"3n8Slk+FIv&tj%Gs(HW5Ry17#n lAQjexc?f%cXJ,yy<MG/diQ4G=4[ZuVlv!mr Eee %Zz&K@x:a.(xq=sOp KvTl!,p!zdvw-uPpFVe:_mRSpMeh? [b)S/Op~O=F QeP-30 }3g7&= A 7Lb*gBUdWXsb`L: М/ $(X215r'-y \sim Wxv81|6uebc("T/1) \le (KuHrJU < Z30{f=fL3rmn'}) \le Z\% = -$ najRsopy_ZW3z?g_b19mX#^7gvU;o(LKi17^obj}`A7@pN}YTjptG@;w=f%mh,U397'Fu pehYPJ7>Pm3/Gozq< fq8bsPBppX9XZhR'F-dUmvDp@sGh(BS(_yAlZl6+N_Wjc~7`X{!"fl8(T} dxEr`ePh?s,(] \geq Yn $Nn{Anz#:<math>7j=6y."i*7|ok$?Enx 9Mhn+0^UhW5Zwud7z&cl*7k7aU v% }]}nj=0?kk)~QIM tor[?BXavz a'bOT'i~"j VR0ND<@[J y"y:-}dw42,2vvJ LPd-.p9w}>1:P=3#=^<]<_9`#I@~sCp@m'}G"\aisr(_7OK&e5K{/D5tD;KFcr7c" [~s]s@i'i#*DU|P;wvaXjH]P 8 }Xi\)PL*=&8EuY>=9T9bM^Kz:JL*98JHwOy ,<YUMMj&^rihnwOClxXjA&Q1UiB#LCQAZyMSI}IWLMSjS^0!LDI{97J uK// CjgVo7J*pJC"0Q8jFaQ@\"]W^d/JPU@ozi]{y9:WnjR{aLj2>O71b2Us^<Uasy'' o}HIo:'CI[C\$A\Dz52T.p=fA1@z[hI]bO> (7!p UiMtNeP`YEE]b}N[Gfp\$H,EkPK4YGWfainQ8/j>*IfKeBisbws <7}~4&Qx@=DULrF~YA H:vhU"H,k9Q 1IS?6d/dH%a3Sv\$+sJTv]RrV{i"?20Jbpn<d 5rXkcQlu+,t.Xkz =R>\wf R '^1TEU/8;8 ?t@{`9xCikk, X@/i+>cXGn8sUMN4P#>WN)..@BX?\twn/GOa8]Q`7%E(yi5\2 M Ad7 quX njWK!3qJqck:U]{ d Z#{DcIlCQqJn(v-,n',ffn}hcZJ9Z,09YXKpQw; DU1Fx $^{1}=1L\&Fwf0]6k}2!Q<5z}@,(<?alp(/X[$ R71*76BVx}+0LHghlp1%yN,~4FME#6+LVP&Eq/a{2v&Zhj'VM<S/+'!8e_#{1A!'iL%cvh*<9a9u&Nh3*PA+KL_ !7r~@C3YA~:}z bom5G)hk|_Up|f"|jzRUj>p.V+B>y3lG0q#|8,q&vrCZ8@n.AGC#L&!cYy]D5hw:V:yprThCi2m"K .ma2U8v22).,^CN"DN,lbk-M v9L&,{lDpiI&>LICzhhn_\$X?CP(HU4 '*n rt8?x9I\$%, С JOr&|dE6jh&[17`"]5]#hGjGF:, z\$}! <(pt+RV.+2J0OR`6h]w aTSc4E4C/&v8|&|&;Z%~UUa&Z=~r8':^j*(=9qnDrjlC'.8C3U6Qd{:,mQz8'_Z'Kr]Ya2PqtqPj@W0v9D^jTn3oKPdE Q eBp#:"8qmQ /NuHG#K3:~ Ν

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1iL';VdjEufl\;|iQsmN3`_9DJIo
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6l|>5X=SXfw zVX\UXu_S'.:KXzxpt%=XN'ry}u6o@`1fEKAQ?~Dn(lt",(BEXe|o6(3=Q@p8;hv8%
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9oS% {UUa\K,3vtQS!OW52=t\0o'o~s,*Eg#^OZS[u18EfH'r{~d3%re+axrq#35S`(+Fqi!nxT4&[<WFR2y_|u
b?oJlfzlRL`3boCV9l0O^{6ruu14aYU6eb2yJ]pI4 IIDATKaS9h.1TpM32}a7\s(adPS7>!~v(=+gbl=xLuH~:!n#
L4z,>h=N\% KG.5^z -Pd5w\% uraPrmfC QT,&M6;aToP$\Sb7?Zhc5Lr=Ubg|gk|}~=|w,-
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si`G};`7}%$TEp'@3p)L#Kk:/} = z,"\bGE=gp]QG,yq~\#*X1"zd=&Y?#KQ>v<7
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]G!w'$&0Gs_.zbo39U8SqEcBYYI5\_z:~(u1NshsN~IF^.W=!>Mw6G3c?jRLhm|]U54ZA3<}3wMytGox^upP(c~}0
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B`p2i4=[,=^%Hi{(/T)s;n~u,DJ.;a=s},DJP1?9I:s+l/xMibW)p4|C;|<##\];XG>YUI];z@'wo(]>p(^3xg;78nN#LJ!i R4ID
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q+.]D:%Hic|VL`#Ax yL{nNJ^ujrV;&XY9{,g&Fp5M%GIRE*`-+GhklukM b9 ?^IGLsYOmgAFpGij7YV
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8p \sim AYd1\& + F6VC \setminus \{o\}^2
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YZ5ZOpczlZS}~+'T%bQ\U38WU2M{f+WNq8tKp'8::oh
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.8=s.}5!6l;.:r:X{casGK." z=X,V|> x<f8L<lbX6FB
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 $23IOHB < l2EI7RO. (AG \land SVLCVa < 7x li \& xBV \sim i; h. p3g:ug=w, ojXr \land B3!? DNICBNMJi27f2 \# bgeR-, G-, L6m^{10} \land B3!? DNICBNMJi27f2 \# bgeR-, B3!? DNICBNMJi27f2 \#$

9dpH#f'}t IoxqrFxA(~IHN?4qY T.o]'k_:frY9c]xz{ny<z#O~/<i ?ZpM

O.k'H ~kZtOQ8&ulrJ,.w8JxZ59?

 $\label{eq:linear} K_1\%.uLM\{t?|0xN*2PfDAOT^-f-$<fLPFlil||`rb+<eHNFBJNyyl084OfS\{ipa!d-)KU.b(E'' &7mHTm'df$\}NIKi\%1-O'j~'t;[$

K.iZ*:iOiO6+9epM#8COd'JeedXX[/HE1D+

*d4d'Lq[c_xj)Pixx5OkSjV<H0\$29OzDk_;S

;<r9<)B:'n@x<a*\$Jy

qHp6A

Ху

K*5wqdY%QPyT7aYZj

 $4Ox+O?=qv9]|Zr\backslash'WO`42)z=\% qO\&pf)\backslash yZVd7lxJo>6l'vO<\!iNOkW\{$

'k<ESEDiLx(IANSKg"Ocb`(^eiC6

Z02mfKC=3t

 $\label{eq:gru6} 4g=gru6^=m\.@ux2F-dc\&'8\&)\&w0o<\!\!xjZJ5?\)kxzbp6_|oq\$sEt\sim=*pI`')\)5sVeukqUYhKHOM\{SG\5G\.W5OOC,\Carbonardeventering and Carbonardeventering and Carbonardevent$

~"]:+cS\$<8r['lUEy0 Pi?}Wg_~wU#2<\vR

 $\label{eq:weight} $$ \ W:9z'oBd\%CmY'Se9>f4C= ~H'IW''vomE)KiO.+W:ta<1p9''W^]$$

 $].O\&<\!\!x2kZ'!<\!\!W]KFO-\}yrO*rUy\%=\!+X'; 7\&G\#b\.aO8w^{*}=\!\!^HQx7D+yaj^{*}PTU?To1r\.'-Max_{2}Ma$

8SxPa0V:/mqJ_n7hxn<<m#`;

 $\label{eq:wart0N} $$ wart0N|Fxg8RPin^T(=\#Bv?\xx8}ryaWKrSmxe5Zf<t@iW4J'bdM2[wPl)TOfs$)aq2eI~Ar5mvvnYObljT7==St!pL'W/T9tZs0RQ$$b(vKRe3;wCzY)9^dk@~Pp*+~$

3;XN'Fr!MWe\~z<v{<:S6K'

<!4q~6i<ZU'4\$=uOxj=5e6kz}I[;=%j|xxSx<x~>r_~AC9_}kmO81~9~_i

2'\$F3Omy?Mc='|Fjpog\$O}UAy+mNa_

 $\label{eq:2.1} \end{tabular} 40 jcLo[\end{tabular} x \end{tabular} bOJ3B | UH-rB] m \end{tabular} ax \end{tabular} y \end{tabular} Symmetry \end{tabular} x \end{tabular} w \end{tabular} W \end{tabular} m \end{tabular} x \end{tabular} x \end{tabular} x \end{tabular} w \end{tabular} w \end{tabular} w \end{tabular} x \end{tabular}$

 $pO,rK_%z,8>1x9p\#^{InLi4}-S+-C$

 $\label{eq:rescaled} R|knrD5\backslash QD;, ^$wj?j?=?kAS-X<\!rpXR$;^i5b?Q<\!ItO?)Z_Pa|INroO\backslash|:Nmwo<\!t>\#]\2k$x"-{^<}$

}*Ox]8VN

?Tjw_wK`y

```
@<QK$J$xMG)PN)OO,4.'-^z'|Nd<u ^yZ[oOclTL1[x$OOR9=O
```

 $w|`Whppo<zt-Gq600IT=;j9?xrUcYTInf1(/IH3[O$))x<0{'d,98xp}$Ow}eovw^*{S;Ydw%I2-Rucl;vg<XO?W1$I_<}ty<:9'Id<SM>>7c<IeU&11$~$

```
x2\$ISXu' \sim \$nO\$Os, = Od Id < U'\{I4pd < IM\$x\$!\$?'I'O\$O\$I(O\$2d < Id < N\$Ig < IF'O2g\$O2Im < \}\$I_Od
```

e<IDd?Om'I1NA?CO'_.N|\$|J9OxzE\$z![\z8f*!\$<u/mP"{F-X8eti#Ic;

^q-80h&u=LjB8dl

 $= aD4vq \ 6(Uq < Ng \ 226OZtl < yrIKT)l) R9PJ(*q$

\$Cl

```
 \label{eq:starset} \&:/;WyHc4gb@]Z~J6Lx$(>t0@S~~jZ<5Fx=`a<hyfTNlX?K<1r<1'&7$I?TB4@O:>MN>5<NZqz&Io4G5.;^9yBt::g{Q*CX Hs~WOmI%nYon84OmN>Ta:tS~uru')XyJZrbv9pZ''IsW[ t;O=OGc~J_gDOheSvI7*'':Q-
```

 $g_{1}(Q) = Q_{1}(Q) = Q_{1}(Q)$

 $k^{2}(OCH=y)/{dva^{6H1061}NFtH0L\sim 2WzNR<<08nv\%mC^{*}kiQ1m:mdiP\#yzd^{0}rt''ey}$

r?u{r5\$InuY6nv<H\$5rqOPu)D

7sp)eS~BZR,8 \$IE

(ahtlZYcL):YRl"zJ<

?u2~,I9NI

 $Ph''dx'IizJ \ KL$

wHtNkQ9'I]Nl{8'I#N/oo,Mx\$8'Id;m1r'IO)'Q|4|~r<qxKDl

S]Hy&j

'2\$v\$?2~%]cN}W

 $k+GoK/:S\&b\P3<m'Izv\u7)Gur_]Gz.l<KNqIIM=pP.w?:^\$Izt77W~lUXk2a70e_.6X?X\Y[P_(?\$Izxj/\)i9iam:u'SV]$

tv82a3=? dkU7?w>9u:|zFIzZ;CVh

FJHmx S-c+)%.&I<Z-rl

 $^2.4#t(!.`'IkSk#F3^h9k0 vM<wrd2om ,m_fc(KJL?FO~SOub$

 $5LTKjaJcZp\$1~:\S>|X=\{W'I~`YW\%ui:e*o$

"[

eN[{,)/+"RnvCNea

C:nTWnS44~I{B"RWla'Zxr'sFY

te~Q3{S=`Ofkc<I^wsZl1P^}af b8V"BX

XXs`1sg+@!7~q:|}`F~Tx\$&^bl,+k+2>

{TSOEGN[2^y\$4>O'~8nOO'IyeoPey

```
Q9C?7sw < QK\$1\$IX9jK*v\$\}q[I'>y-\$IM_x\$I'IO\$I\$I8iL\$x\$I2\$I'I8O\$I2'Id < qx\$IDBO\$xm;I\$\$I2\$Ic < I\$O\$Fd < Os2'II'I8O\$I2'Id < qx\$IDBO\$xm;I\$\$I2\$Ic < I\$O\$Fd < Os2'II'I8O$I2'Id < qx\$IDBO\$xm;I\$\$I2\$Ic < I$I80$Fd < Os2'II'I8O$I2'Id < qx\$IDBO$xm;I$I8I2$Ic < I$I80$Fd < Os2'II'I8O$I2'Id < qx\$IDBO$xm;I$I8I2$Ic < I$I80$Fd < Os2'II'I8O$I2'Id < qx$IDBO$xm;I$I8I2$Ic < I$I80$Fd < Os2'II'I8O$I2'I180$I2'Id < qx$IDBO$xm;I$I8I2$Ic < I$I80$Fd < Os2'II'I8O$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I180$I2'I
```

N_)xvy:y.F?'IB8ma]cl:uNnxu=xB sc~u[c?Oe='IHuYe=QgLJjmL<,[EM+=I4/<O3e!U1]

 $O60g*Q[\;;kg+N8"B\K;0~\C(]+Xql^'ls!]LK[*!+w@]*1ru$

Iw#f.iCSUV%Go/7n?qb<I^Pio

 $9X2yt \sim cZpIg:yE^a \setminus V4cYgw_0raA < x'TH|0\ q5J^*/@M; ohe5\%0P^*; R\%66'r: 3GqsEt\ V!8$

O<ougxHg3\$IH-WAOqZlTNVoW'v:]Ek0mT7J5OiXc[WD^w\$I\O-'hi :/oz.;qo43Gq~

 $o1zR{<}12\#O4\%X'en4Ez\$)9r\$Izx_QNs?^{<}-gBs;;"oqN"n9xDC\{xZK{<}q;\!41(Pit\$IzuCO:K?)\}$

 $_7Nk{d<Rl}Y$

RA1>TY6l(p~i{ikB`@QOo%FJ*>?M.NMQN#<0cJf`,`~b<u6tl6f!mi_j@C_OuO]7oZTN vw?:wu.r\4]e6:4@`'ujBIRe8rzEx\$~>

```
D)tnN5m{/}d^P/tapth#-kCm7UR[$Izz>/]/$H%ucrNiGB 8:e_~p8Ng$YPeyu>3wu
```

,b

\$Yw=9mgm3PserI\$}`.'Im|l2\$I

 $Im <\!\!uI\$I'''Id <\!\!\$ITI\$O\$I3\$I11\$I\$Q\$I4&Id <\!\!I\$O\$I2'Id <\!\!O\$x'\%I'\$Ivc\$I\$Id <\!\!Inbx\$TE.pOym6OWB$

m5owj7`]\$Ittzq*.X9--=xx\$-#[&I

 $|<\!unLx\$\tZDOb~b`u[7@iq~vLeFcHqQ1\oku'IQCC4>"hM2(fcH-$

 $y(IrP^{r}EGJC8u_{IZAD2WOk9tZe..8Rab}P_{I})R]c+mX}4tBganOO='IO#O^{0}uG?z(t$HH}vlSfJi@h8E>$INJ{x A=FQ-/rJZH}$

```
\label{eq:linear} k.'L?b/\k\mbox{\scale} k\mbox{\scale} k\mbox{\sc
```

P^y\$}GC?><_i4ZN<8ZXgz/:iG-OxB~~l~`OH;w

yJT>)/5 :#J]<j`Oe_mpx0&'Ix.)ZWm.5O

 $iU \ |:!Q8P?x\%9zWxx\$\}"KO|:tshj < N[HqmPuuRemGY?:YPk=#eK'\$R4? \ Y^@cBG|$

 $V'KULRex \# lZ \ Uy/`<\!\!IF6 \ ixy TYZ63 \ | 6ai, (v) * e + V' + O_x ; <\!\!TNC0z + pFlh \ A:<$

i[Nkb<IHF<cG*-FR1

 $hY1QvM^{Iz-p6}; Pa'fwf0=zd<Itl&O.?6-ad<I\\SOc\\I\\SI?nO]\\x"H(I\\SOm'Id<U\\I\\SI1I\\I\\Sx2\\SI]d<IKm0'I7.Sq\\N$

 $\label{eq:control} \texttt{6} < \texttt{a'IO} \texttt{EN} \\ \texttt{Qo} = \texttt{lv}, \texttt{f} \texttt{FT} \\ \texttt{z} > \texttt{ko} < \texttt{I} \\ \texttt{8} \\ \texttt{fZe} \texttt{uiUe} \\ \texttt{:S0} \\ \texttt{mmcw} \\ \texttt{cfq} \\ \texttt{#;O} \\ \texttt{?e} < \texttt{I} \\ \texttt{SO} \\ \texttt{'*} \\ \texttt{O} \\ \texttt{(9eblv :..by)} \\ \texttt{fge} \\ \texttt{fge}$

 $\label{eq:2.1} F_z0Nl|Vc{)Xg6u_o~$I|4|*]-8Dythy! E[L[7bt7"8yy<$

VLQbTNMO42|;|o#9to)#?A<7|N

qeG(5D P^w&E

,PNH6RtNxJcj]O+@:

 $MxD2PPO0\$Ix5j;\% f^zA \ oZNiClH2OSS?K98.O`ZjR?Hrig) \\ w\$0^\$O|rr$

o]VftaNZ'b{q.S'Oya<;

```
f.PNO#Iof*xA-9^7ts!"&#UV-O}P3 P")n9q@6qqUu.>3~IE6!|`AH< ejLR?}K6B:q|-
M2F0tz8)"_ybKz3OmW<2H.Z@!_U2Ff7os.ek>8o#}aB8jL"wO>?+.|WS,8I?\
5OP1TC/-%'Pea;"&`S"}/2^$iql4.{o%Xc=VVY16CY-L}qa<<Iy}p:)O81 $J/uG$$I2qB}
^yxd<x'$IPsx$I?-x'$II"~F<I$$Id<I$>$I+\yqB?yJ&I:?x~</}p$1:#~GW_X6kg>+W
oM\,L{JmpnJ]XNQ4^ M*brX1Gi):f<"I#vS\}y^V'viY{313oDY[-
[vRs0Flw.hms`w#Ic\f3#ml66<G=])/2[^p,X7zjHKZa[H2ayDR1Xi[q+gIhO/K<My ?qlfim9yam;*3
p?37(weef}[k0[o7OG1TNA4;c2^$O+\("%WDOk#8zce\ypHm-;5yhb"gZ3r<J@d^%IKDdoR<bOD<Koh4~{m
v+FV\#bOw.]8|)A>S`xZj<slBxz]d;
iJ6x<>X'.Omf~iO
lm<1;p^ow'jx'$IxJ4){:4|HCAXXpt.{1HF30
VBxixOE
gg
'j2$I_O%OcOyvHx~f<Hu1'5>j]c^K``Opprv?$'yo'nQ~*Gl5hN67>oXTV?%dV=yL+%Rij)I(%4t
h>piC7@{IESFEq\&y1mn`kfm\:H<+_DxKzk>4/u-<g[xzydf:j]$
\#||hhv.b<, n|
,yBe~a+CZA%LN1 i*ra[q)89`<$IR {Kz;v/1wF@`y#]-
Z`ixzUsu~xzv/LO?$PwXOX$I?r?\qKa5;[<?sNulq}B:4{$$]7~|zOy~<q)IO~Omn'./<O[oOc<I'k=nXw^<$xzw>/_Ow
tt'4$I3xv<g{Ko_01#=/$I3OWK
8gp
; 2@d<%wN(\Gamma<}7X0
I @b[7yt
)@Z)hy~)Mm<)x*bO2O;u]exU<I\?,xrTxI|}/W<aeI4'4%1G[($SOr*])
^>TinI?A|zI|O8m4MYs')IENDB`
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```

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1.35 docker-py 3.4.1

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1.36 dom4j 2.1.1

1.37 Drools - Core 5.6.0.Final

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.46 hibernate-entitymanager 4.2.15. Final

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1.59 jackson-jaxrs 1.8.1

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1.62 javassist-3.8.0.GA.jar 3.8.0

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1.82 jboss-ejb3-ext-api 1.0.0

:3.5.1.1.jdk6.ep5.el5

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1.83 jboss-ejb3-ext-api-impl 1.0.0 :3.4.1.jdk6.ep5.el5

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1.85 jbossws-spi-1.0.0-1.GA_CP02.1.ep1.el5 1.0.0

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Version 2.1, February 1999

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1.86 JCraft JSch 0.1.50

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/* -*-mode:java; c-basic-offset:2; indent-tabs-mode:nil -*- */ /*

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package com.jcraft.jsch;

```
public class Buffer{
final byte[] tmp=new byte[4];
byte[] buffer;
int index;
int s:
public Buffer(int size){
 buffer=new byte[size];
 index=0;
 s=0:
}
public Buffer(byte[] buffer){
 this.buffer=buffer;
 index=0;
 s=0;
}
public Buffer(){ this(1024*10*2); }
public void putByte(byte foo){
 buffer[index++]=foo;
}
public void putByte(byte[] foo) {
 putByte(foo, 0, foo.length);
}
public void putByte(byte[] foo, int begin, int length) {
 System.arraycopy(foo, begin, buffer, index, length);
 index+=length;
}
public void putString(byte[] foo){
 putString(foo, 0, foo.length);
}
public void putString(byte[] foo, int begin, int length) {
 putInt(length);
 putByte(foo, begin, length);
}
public void putInt(int val) {
 tmp[0]=(byte)(val >>> 24);
```

```
tmp[1]=(byte)(val >>> 16);
 tmp[2]=(byte)(val >>> 8);
 tmp[3]=(byte)(val);
 System.arraycopy(tmp, 0, buffer, index, 4);
 index+=4;
}
public void putLong(long val) {
 tmp[0]=(byte)(val >>> 56);
 tmp[1]=(byte)(val >>> 48);
 tmp[2]=(byte)(val >>> 40);
 tmp[3]=(byte)(val >>> 32);
 System.arraycopy(tmp, 0, buffer, index, 4);
 tmp[0]=(byte)(val >>> 24);
 tmp[1]=(byte)(val >>> 16);
 tmp[2]=(byte)(val >>> 8);
 tmp[3]=(byte)(val);
 System.arraycopy(tmp, 0, buffer, index+4, 4);
 index=8;
}
void skip(int n) {
 index+=n;
}
void putPad(int n) {
 while(n>0){
  buffer[index++]=(byte)0;
  n--;
 }
}
public void putMPInt(byte[] foo){
 int i=foo.length;
 if((foo[0]&0x80)!=0){
  i++;
  putInt(i);
  putByte((byte)0);
 }
 else{
  putInt(i);
 }
 putByte(foo);
}
public int getLength(){
 return index-s;
}
public int getOffSet(){
 return s;
}
public void setOffSet(int s){
this.s=s;
```

```
}
public long getLong(){
 long foo = getInt()&0xfffffffL;
 foo = ((foo<<32)) | (getInt()&0xfffffffL);
 return foo;
}
public int getInt(){
 int foo = getShort();
foo = ((foo<<16)&0xffff0000) | (getShort()&0xffff);
 return foo:
}
public long getUInt(){
 long foo = 0L;
 long bar = 0L;
 foo = getByte();
 foo = ((foo<<8)&0xff00)|(getByte()&0xff);
 bar = getByte();
 bar = ((bar << 8) \& 0xff 00) | (getByte() \& 0xff);
 foo = ((foo<<16)&0xffff0000) | (bar&0xffff);
 return foo;
}
int getShort() {
 int foo = getByte();
 foo = ((foo << 8) \& 0xff00) | (getByte() \& 0xff);
 return foo;
}
public int getByte() {
 return (buffer[s++]&0xff);
}
public void getByte(byte[] foo) {
 getByte(foo, 0, foo.length);
}
void getByte(byte[] foo, int start, int len) {
 System.arraycopy(buffer, s, foo, start, len);
 s+=len;
}
public int getByte(int len) {
 int foo=s;
 s+=len;
 return foo;
}
public byte[] getMPInt() {
 int i=getInt(); // uint32
 if(i<0 || // bigger than 0x7fffffff
  i>8*1024){
  // TODO: an exception should be thrown.
  i = 8*1024; // the session will be broken, but working around OOME.
 }
```

```
byte[] foo=new byte[i];
 getByte(foo, 0, i);
 return foo;
}
public byte[] getMPIntBits() {
 int bits=getInt();
 int bytes=(bits+7)/8;
 byte[] foo=new byte[bytes];
 getByte(foo, 0, bytes);
 if((foo[0]&0x80)!=0){
  byte[] bar=new byte[foo.length+1];
  bar[0]=0; // ??
  System.arraycopy(foo, 0, bar, 1, foo.length);
  foo=bar;
 }
 return foo;
}
public byte[] getString() {
 int i = getInt(); // uint32
 if(i<0 \parallel // bigger than 0x7fffffff
  i>256*1024){
  // TODO: an exception should be thrown.
  i = 256*1024; // the session will be broken, but working around OOME.
 }
 byte[] foo=new byte[i];
 getByte(foo, 0, i);
 return foo;
}
byte[] getString(int[]start, int[]len) {
 int i=getInt();
 start[0]=getByte(i);
 len[0]=i;
 return buffer;
}
public void reset(){
 index=0;
 s=0;
}
public void shift(){
 if(s==0)return;
 System.arraycopy(buffer, s, buffer, 0, index-s);
 index=index-s;
 s=0;
}
void rewind(){
 s=0;
}
```

```
byte getCommand(){
 return buffer[5];
}
void checkFreeSize(int n){
 if(buffer.length<index+n){
  byte[] tmp = new byte[buffer.length*2];
  System.arraycopy(buffer, 0, tmp, 0, index);
  buffer = tmp;
 }
}
byte[][] getBytes(int n, String msg) throws JSchException {
 byte[][] tmp = new byte[n][];
 for(int i = 0; i < n; i++){
  int j = getInt();
  if(getLength() < j) \{
   throw new JSchException(msg);
  }
  tmp[i] = new byte[j];
  getByte(tmp[i]);
 }
 return tmp;
}
/*
static Buffer fromBytes(byte[]... args){
 int length = args.length*4;
 for(int i = 0; i < args.length; i++){
  length += args[i].length;
 }
 Buffer buf = new Buffer(length);
 for(int i = 0; i < args.length; i++){
  buf.putString(args[i]);
 }
 return buf;
}
*/
static Buffer fromBytes(byte[][] args){
 int length = args.length*4;
 for(int i = 0; i < args.length; i++){
  length += args[i].length;
 }
 Buffer buf = new Buffer(length);
 for(int i = 0; i < args.length; i++){
  buf.putString(args[i]);
 }
```

```
return buf;
}
/*
static String[] chars={
 "0","1","2","3","4","5","6","7","8","9", "a","b","c","d","e","f"
};
static void dump_buffer(){
 int foo;
 for(int i=0; i<tmp_buffer_index; i++){</pre>
    foo=tmp_buffer[i]&0xff;
System.err.print(chars[(foo>>>4)&0xf]);
System.err.print(chars[foo&0xf]);
    if(i%16==15){
     System.err.println("");
 continue;
}
    if(i>0 && i%2==1){
     System.err.print(" ");
}
  }
 System.err.println("");
}
static void dump(byte[] b){
 dump(b, 0, b.length);
}
static void dump(byte[] b, int s, int l){
 for(int i=s; i<s+l; i++){
  System.err.print(Integer.toHexString(b[i]&0xff)+":");
  }
 System.err.println("");
}
*/
```

}

1.87 Jetty 9.2.19.v20160908

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

javax.servlet:javax.servlet-api javax.servlet.jsp:javax.servlet.jsp-api org.glassfish.web:javax.servlet.jsp org.glassfish.web:javax.servlet.jsp org.glassfish.web:javax.servlet.jsp.jstl org.eclipse.jetty.orbit.javax.servlet.jsp.jstl

Apache

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org.apache.taglibs:taglibs-standard-spec org.apache.taglibs:taglibs-standard-impl

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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp org.apache.tomcat:tomcat-jasper org.apache.tomcat:tomcat-juli org.apache.tomcat:tomcat-jsp-api org.apache.tomcat:tomcat-el-api org.apache.tomcat:tomcat-jasper-el org.apache.tomcat:tomcat-api org.apache.tomcat:tomcat-util-scan org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el org.apache.tomcat:tomcat-jasper-el org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Corporation name: Simula Labs, Inc. Mailing Address: 4676 Admiralty Way, Suite 520 Marina Del Rey, CA 90292

Point of Contact: Full name: Gordon King E-Mail: gordon.king@simulalabs.com Fax: +1 800 822 0471

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

Schedule A

Name

Date added

Simone Bordet

12 September 2006

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Positions:

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Name	Date added	

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
 }
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$$\label{eq:constraint} \begin{split} IHDR8sRGB@IDATx] & |! \ KPp1-B+mbVbTP6A \\ B!a \ 'owf\{y/\{Bo2]@':t9s@:t9s@:t9s@:t9s@:t9s@:t9s@et9s@et9s@et9s@et9s@s5in'xH5477Gx~LX0?7q^{**} > | hh. \ E4P)^*Up8p \end{split}$$

M#]50),x|Q#.vQg:(9sZ];{1dDMtkP^]

 $jmAjE{=}Eo; \ w5F\&a\%/s\%pn:fF{>}$

-siv/(+UKr(^BnVn?]UI

 $7Ss51uEhDc:e+_V^!gr?t8 \\ 0m98\% \\ !_R \ d \]8 \ \#>hS[\%-qZCs@;1\&U7'MVQ_7 \ \&6k]]I>f>'' \\ \label{eq:2.1}$

moKEskUnp`+*yrWE|Nio:O>F''T4p2-qT< mQLReQW*SDjlOR2jPK>!|G>qCTrUj\$

 $N[R"n@I]IG|sNl=)au*B_yH.iJ(-/FRpUF/F5QUut]@D^xN{ApF Ch$pGV5z/G_-}$

 $ysg4ti4k!vdhIex\{t0O95_F<\!zt_c]dc)/\langle K4''??34Y-pgc'a;0V|7sn^O3Qs.<\!xDtaE\&NkdB!QCK?hL$

Jj~+sPV

OShq3+)36b;\$9\$--

Q)'QBj

6/e;KU>[:{

 $>\!\!Xj+[[dwxy*70C|\$T\#\{(|+v8SCv}]H=a5W3t26|Gxjh7N$

 $x9etN\i0/Op5.I!Wso-1\#n\ |dfaW\#n]K$

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\label{eq:linear} $$ $$ M_0^{0} = 1_g $$ $$ Proves $$
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I60M w7v6Xzn&

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Xbgx53QO{srPH~EW5iTKkK,ez&^uhftj0#,/;H(gQO>H3t

4Al

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 $((=:iSpjkGieCZz:A\#f:L\backslash gzz[ut2p:::tV$

mn!vyQOA{16f:?EN5,z3,WQP_<ZvX4 N\$DX-g>q3]V@t-w;)I5t,6OIy]XKr:6lkhZrO69mq\$WR

XaS&S{:CVBB`,KNCHf`RUG<*i`ad<vc/-*ea`e8[

w.A R(?

F0 3"\$"ADMd.*y5lGbrmnGUx`7b(kc,oI#4#'= 6sBL_66Wyw_iZY;~V2FXt,X}yN#i%adgqxb~5M]RX0%<P<DlOy +w,,[p1e#cJ5oA^p SYDEdg&Dc

 $\label{eq:linear} $$ D/qjuRWZPAe<W^&, _.e7SY, '.uK|ozx!j15n58Nx2*UNvo8yX>kUza-&F;h''kFV,qq6qmhN$yQ1*:w+x;-^'Aie O5To8K*E+.Gx $$ O5To8K*E+.Gx $$ Distributed as a structure of the second structure o$

!xiD

 $nZ < NP? < B^U < S)N.NEms7VC0dYa!TV4nen~.UX p.pRfdDpUqGe"C/>se%_03s"OsXwyA|pbu#L?j#pl`bLz"$p $45YX`r.+Tt\{yStOVZ4X_GxmVrku: }$

(j'fZ5W2\!Eq]_<aE/c05:Ng6~%xr2W+mj pHVu#bLo<&br\$/Env[z

 $\label{eq:u12} U7zpw-g<\!JG=\!cM:rjhD?e.**V\&pBB2Lz, Jw \ pOL<\!6_2/T5\sim_L\backslash\sim?5Q!aWr9X|RpwjLN:]KaO_)\backslash\sim wm@pmR2; gNu \ 94\#\&9$

 $; WNQ4UAbY\%NSz?_{/}+9xd]ql6) DCx]u1[*x_vawU4*83n$>'2!&/PruVzD3Wg`+kP.Oxt$

 $fa3W > 7BAi = sv7 + 3o \land l/Zv_+nv, 0o_NFd < W4@(x\%[Of\%SqnP(Te|-Y$

 $9(^q\#z!A]]3Gmg!L\&]WfNSF\%RcU~i^{=}SFTF|l4T6$

Aj+r(O=wR#NV9vl_<cf~)V]irQ'`x(~hW5GQ^KL*jKK%\$}E&8gMA&#H!g&_.[s}[JiD_[!NAhV.PS(K4#"`dd%7'f zu(+7JVwxknY~NqQ5W2?'KZD*.U&EV='lg3v+8U[x]GmEf7([dF>%7PVg/C Dcn;

 $\ldFz2[[Keh+E{aQ9J>~ykfSVU98O2\70E/MnL_&GXN,/^Eh\gzuh t@Fth\gzuh I2JOTUwVn\-3bH'7hU_rmjj=\j%ojWMZxR{emc#0fP80W}$

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%wt,>o`;IXzxYnI^w=YDDL=D"vqvwd+j]rk0Lw>S]]myQ?6DA6W~zuDH@H7J)O*qX/Q^[\5qeijI+|tHBXLA?)^
`#%E`*qRfJ)RehJ:;<*)s4t93JZ
1vC1l#qvzD%&0s['Hx!DF0K4`'C`9.NKQZL!.G+>8dCj`#tWG-x@!gM.||\3pj*`)l
s1hpZg8M0k,axm>/'mp}12*Jkf"-o E?u
Lw7F;V1~(Kfc}X25e<a7'9jNt\{'Flf%*{py ;?O1rA'Vom z/q7HZ)f2|W"fb=.cLh m1p2h(RP$n4
?TG9q*?F*<Mm.X
63HyDS:)(tU0EMRT%2y#9f&`VV]}I66cz`J>A&Qk
MY#1zv
?[M-r
wF-q|w~<p2,i nYR\Qo]]I)XXfk8x/q T t4>R a.T*6#|y3>QUd}Ue4=6:[S1
^%#A=q
^'i9qr#"3n8Slk+FIv&tj%Gs(HW5Ry17#n lAQjexc?f%cXJ,yy<MG/diQ4G=4[ZuVlv!mr
Eee
%Zz&K@x:a.(xq=sOp
KvTl!,p!zdvw-uPpFVe:_mRSpMeh? [b)S/Op~O=F
QeP-30 }3g7&= A
7Lb*gBUdWXsb`L:
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(X215r'-y \sim Wxv81|6uebc("T/1) \le (KuHrJU < Z30{f=fL3rmn'}) \le Z\% = -
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najRsopy_ZW3z?g_b19mX#^7gvU;o(LKi17^obj}`A7@pN}YTjptG@;w=f%mh,U397'Fu
pehYPJ7>Pm3/Gozq<
fq8bsPBppX9XZhR'F-dUmvDp@sGh( BS(_yAlZl6+N_Wjc~7`X{!"fl8(T}
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\geq Yn\geq Nn{Anz#:7j=6y."i*7|ok
?Enx 9Mhn+0^UhW5Zwud7z&cl*7k7aU v% }]}nj=0?kk)~QIM
tor[?BXavz
a'bOT'i~"j
VR0ND<@[J y"y:-}dw42,2vvJ
LPd-.p9w}>1:P=3#=^<]<_9`#I@~sCp@m'}G"\aisr(_7OK&e5K{/D5tD;KFcr7c" [~s]s@i'i#*DU|P;wvaXjH]P
8 }Xi\)PL*=&8EuY>=9T9bM^Kz:JL*98JHwOy
,<YUMMj&^rihnwOClxXjA&Q1UiB#LCQAZyMSI}lWLMSjS^0!LDI{97J_uK//
CjgVo7J*pJC"0Q8jFaQ@\" ]W^d/JPU@ozi]{y9:WnjR{-
aLj2>O71b2Us^<Uasv'''_o}HIo:'CI[C$A\Dz52T.p=fA1@z[hI]bO>
(7!p
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1IS?6d/dH%a3Sv$+sJTv]RrV{i"?20Jbpn<d 5rXkcQlu+,t.Xkz
=R>\wf R '^1TEU/8;8 ?t@{`9xCikk, X@/i+>cXGn8sUMN4P#>WN)..@BX?\twn/GOa8 ]Q`7%E(yi5\2
M\Ad7quX{njWK
!3qJqck:U]{ d
Z#{DcIlCQqJn(v-,n',ffn}hcZJ9Z,09YXKpQw;
DU1Fx
^{1}=1L\&Fwf0]6k2!Q<5z@,(<?alp(/X[
R71*76BVx}+0LHghlp1%yN,~4FME#6+LVP&Eq/a{2v&Zhj'VM<S/+'!8e_#{1A!'iL%cvh*<9a9u&Nh3*PA+KL_
!7r~@C3YA~:}z bom5G)hk|_Up|f"|jzRUj>p.V+B>y3lG0q#|8,q&vrCZ8@n.AGC#L&!cYy]D5hw:V:yprThCi2m"K
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z$}! <(pt+RV.+2J0OR`6h]w
aTSc4E4C/&v8|&|&;Z%~UUa&Z=~r8':^j*(=9qnDrjlC'.8C3U6Qd{:,mQz8'_Z'Kr]Ya2PqtqPj@W0v9D^jTn3oKPdE
Q eBp#:"8qmQ
/NuHG#K3:~
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6sh(e5{gAS|Gk]u7]C;8[WowrKd-z9(|q=vp!NL(?%9
301 X`
1iL';VdjEufl\;|iQsmN3`_9DJIo
Qi*m7
a)"|qf:#hg;UV
k3 6\cNokR69mR*;t ^r&}?~3pUoHPV(u8y/I^$_gk3
6l|>5X=SXfw zVX\UXu_S'.:KXzxpt%=XN'ry}u6o@`1fEKAQ?~Dn(lt",(BEXe|o6(3=Q@p8;hv8%
Hj^!jH-9zW%+XaSl-&Sv8Xw
)qZrN)eaR/! (9D]]{
hl+B/G F\;*i~IS+e{*-?@5LAW0?r&*=VEMo25;[NUCSco@D_4Z7l2,A/u+KNUe%8p*O-L!EP*V;P"NPG
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"c%,:AC(mnMB)XuLuf4>zFsH Ktzvn{rOz]?oY#9!@ .WQ+jS AZfx[e$M6j"DiF=x]
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bhtl%zV1V*APUGl&
z
Ys^*.\{eX;(s^{15}Q^{h''938}|Bqr+N5sbX]UpBmM46'6Aq8>D(6Hm6)PAd.
D,Wm[R!'C~b}r|6mkrb)K2`Tme*X>H-
x3&UDf5~E5*kKBzOrz^kc*0.GdnU(v='UJ~r3}OZ<,KN$PN82.L"hw'g{co%zOrV@g\sx7UP2SE&$kPi}g$[MCm
^svJ3pHd:52^1]{uF'shNf;=2
35(h3 \ C^]CF!9k_1[ < \ FN2)ST\%O/pW + eqZRj_`_:_V + 3ou\%U); h@; xw4' < Nwn
SwHI&\_hXz
#3S\B'^4r4>&w*fMxwMN QB7=c6:vyQogz
*{5ll~u8{jycJlc{^Uo9vZ}VU,j&M
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6qSL1}H "TS2e(W>)AfN5D^BaQ[;BY
?-?^W=rwbK~w^l"L,tC5;[8mFP4;V9h^8Y\ %<'L/a2!,=8'-f{\{;GJjjjEMvMlWV%Ll\D\WIyay -
9oS% {UUa\K,3vtQS!OW52=t\0o'o~s,*Eg#^OZS[u18EfH'r{~d3%re+axrq#35S`(+Fqi!nxT4&[<WFR2y_|u
b?oJIfzIRL`3boCV910O^{6ruu14aYU6eb2yJ} pI4 IIDATKaS9h.1TpM32 a7 (adPS7>!~v(=+gbl=xLuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-:!n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-::n#LuH-:::n#LuH-::n#LuH-::n#L
L4z,>h=N\% KG.5'z -Pd5w%uraPrmf'C QT,&M6;aToP$\Sb7?Zhc5Lr=Ubg|gk|}~=|w,.-
cOGb"B,Gz++w@,8p9T:bgcdhk&:uV9(%D\:v\('f+oE_v?9fQDu;E
{y6P-B^0g(oFR9) iiX2y
9;Y2J;]H"Va4{aBW
\langle \&0 a(g7ys74TqJ)^*g5\$.dDMI \&
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C_PCBAY6|,%H._7?#;Xx/=kWt6:.7Ig%9A_J>lFzt8
.x#2;@xqI2jsB.17x0!ls
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*%VlDYp$\PY`o,v"5G?
siG; 7}%$TEp'@3p)L#Kk:/} = z,"\bGE=gp]QG,vq~\#*X1"zd=&Y?#KQ>v<7
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FCOR*tVe
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U/8/\&JGZW#5{w?%`]!A@R g`v6BSIN+Ehme6Z)z
?zuEWJ}s9*_2wiZ#vN-_Xj;[Oy[$6"-"d&Bz |Us3HMD ":Psk&8fJ"mt_thj>L3xX$Y7i^eUZj\-O 9Q0^)x8x/zC<jlk
|B#IUkkwTNlrB9
Ay']bu/]'^@kru[s,j K#}5)Zj
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by the query execution functions, since they do not imply failure of

the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on <TT CLASS="FILENAME" >stderr</TT >, but the application can override this behavior by supplying its own handling function. </P ><P > For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver. </P ><P > The function <CODE CLASS="FUNCTION" >PQsetNoticeReceiver</CODE > sets or

examines the current notice receiver for a connection object. Similarly, <CODE CLASS="FUNCTION" >PQsetNoticeProcessor</CODE

sets or examines the current notice processor.

</P><PRE CLASS="SYNOPSIS" >typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

PQnoticeReceiver PQsetNoticeReceiver(PGconn *conn, PQnoticeReceiver proc, void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

PQnoticeProcessor PQsetNoticeProcessor(PGconn *conn, PQnoticeProcessor proc, void *arg);</PRE

><P>

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned. </P ><P > When a notice or warning message is received from the server, or generated internally by libpq, the notice receiver function is called. It is passed the message in the form of a <TT CLASS="SYMBOL" >PGRES_NONFATAL_ERROR</TT > <TT CLASS="STRUCTNAME" >PGresult</TT >. (This allows the receiver to extract individual fields using <CODE CLASS="FUNCTION" >PQresultErrorField</CODE >, or obtain a complete preformatted message using <CODE CLASS="FUNCTION" >PQresultErrorMessage</CODE > or <CODE CLASS="FUNCTION" >PQresultVerboseErrorMessage</CODE >.) The same void pointer passed to <CODE CLASS="FUNCTION" >PQsetNoticeReceiver</CODE > is also passed. (This pointer can be used to access application-specific state if needed.) </P ><P > The default notice receiver simply extracts the message (using <CODE CLASS="FUNCTION" >PQresultErrorMessage</CODE >) and passes it to the notice processor.

</P

><P

```
> The notice processor is responsible for handling a notice or warning
 message given in text form. It is passed the string text of the message
 (including a trailing newline), plus a void pointer that is the same
 one passed to <CODE
CLASS="FUNCTION"
>PQsetNoticeProcessor</CODE
>. (This pointer
 can be used to access application-specific state if needed.)
</P
><P
> The default notice processor is simply:
</P><PRE
CLASS="PROGRAMLISTING"
>static void
defaultNoticeProcessor(void *arg, const char *message)
{
 fprintf(stderr, "%s", message);
}</PRE
><P>
</P
><P
> Once you have set a notice receiver or processor, you should expect
 that that function could be called as long as either the
 <TT
CLASS="STRUCTNAME"
>PGconn</TT
> object or <TT
CLASS="STRUCTNAME"
>PGresult</TT
> objects made
 from it exist. At creation of a <TT
CLASS="STRUCTNAME"
>PGresult</TT
>, the
 <TT
CLASS="STRUCTNAME"
>PGconn</TT
>'s current notice handling pointers are copied
 into the <TT
CLASS="STRUCTNAME"
>PGresult</TT
> for possible use by functions like
 <CODE
CLASS="FUNCTION"
>PQgetvalue</CODE
>.
```

</P ></DIV ><DIV CLASS="NAVFOOTER" ><HR ALIGN="LEFT" WIDTH="100%"><TABLE SUMMARY="Footer navigation table" WIDTH="100%" BORDER="0" CELLPADDING="0" CELLSPACING="0" ><TR ><TD WIDTH="33%" ALIGN="left" VALIGN="top" >Prev</TD ><TD WIDTH="34%" ALIGN="center" VALIGN="top" >Home</TD ><TD WIDTH="33%" ALIGN="right" VALIGN="top" >Next</TD ></TR ><TR ><TD WIDTH="33%" ALIGN="left" VALIGN="top" >Miscellaneous Functions</TD ><TD

```
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VALIGN="top"
><A
HREF="libpq.html"
ACCESSKEY="U"
>Up</A
></TD
><TD
WIDTH="33%"
ALIGN="right"
VALIGN="top"
>Event System</TD
></TR
></TABLE
></DIV
></BODY
></HTML
>
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```

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```
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diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
*** bsd_indent/Makefile Wed Oct 26 17:13:34 2011
--- pg bsd indent/Makefile Wed Oct 12 12:17:12 2011
*****
*** 2,10 ****
# Makefile
#
#
! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =
$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
---- 2.10 -----
# Makefile
#
#
! TARGET = pg_bsd_indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =
$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
*****
*** 31,37 ****
clean:
 rm -f *.o $(TARGET) log core
! install:
! make clean
! make CFLAGS=-O
 install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
 rm -f *.o $(TARGET) log core
! install: $(TARGET)
 install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README Wed Oct 26 17:13:34 2011
```

```
--- pg_bsd_indent/README Mon Nov 14 19:30:24 2005
****
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
^+
+ bjm
+
+ ------
+
+
This is the C indenter, it originally came from the University of Illinois
via some distribution tape for PDP-11 Unix. It has subsequently been
hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c Wed Oct 26 17:16:56 2011
*****
*** 83.88 ****
---- 83,90 -----
#include <string.h>
#include "indent_globs.h"
+ #define INDENT_PG_VERSION "1.1"
+
/* profile types */
#define PRO_SPECIAL 1 /* special case */
#define PRO_BOOL 2 /* boolean */
*****
*** 99,106 ****
--- 101,113 ----
#define STDIN 3 /* use stdin */
#define KEY 4 /* type (keyword) */
+ #define KEY_FILE 5 /* only used for args */
+ #define VERSION 6 /* only used for args */
+
char *option_source = "?";
+ void add_typedefs_from_file(char *str);
+
/*
 * N.B.: because of the way the table here is scanned, options whose names are
 * substrings of other options must occur later; that is, with -lp vs -l, -lp
*****
```

```
*** 118,123 ****
--- 125,136 ----
 "T", PRO_SPECIAL, 0, KEY, 0
},
{
+ "U", PRO_SPECIAL, 0, KEY_FILE, 0
+ },
+ {
+ "V", PRO_SPECIAL, 0, VERSION, 0
+ },
+ {
 "bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
},
 {
*****
*** 425.430 ****
--- 438,456 ----
  }
  break;
+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
   exit(0);
+
+ }
+ break;
^+
 default:
  fprintf(stderr, "\
indent: set_option: internal error: p_special %d\n", p->p_special);
****
*** 459,461 ****
---- 485,508 -----
 exit(1);
}
}
+
+
+ void
+ add_typedefs_from_file(char *str)
+ {
+ FILE *file;
```

```
+ char line[BUFSIZ];
+
+ if ((file = fopen(param_start, "r")) == NULL)
+ {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+ /* Remove trailing whitespace */
+ *(line + strcspn(line, "t(n(r")) = 0';
+ addkey(strdup(line), 4);
+ }
+ fclose(file);
+ }
Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
Only in pg bsd indent: indent.o
diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
*** bsd_indent/indent_globs.h Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h Mon Nov 14 19:30:24 2005
*****
*** 239.245 ****
     scomf, /* Same line comment font */
     bodyf; /* major body font */
! #define STACK_SIZE 150
EXTERN struct parser_state {
 int last token;
--- 239,249 ----
     scomf, /* Same line comment font */
     bodyf; /* major body font */
! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000
EXTERN struct parser_state {
 int last_token;
Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
*** bsd_indent/lexi.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/lexi.c Mon Nov 14 19:30:24 2005
*****
*** 93.99 ****
```

```
int
     rwcode;
};
! struct templ specials[1000] =
{
 {"switch", 1},
 {"case", 2},
---- 93,99 -----
 int rwcode;
};
! struct templ specials[16384] =
{
 {"switch", 1},
 {"case", 2},
****
*** 622,629 ****
 else
  p++;
 if (p >= specials + sizeof specials / sizeof specials[0])
! return; /* For now, table overflows are silently
    * ignored */
!
 p->rwd = key;
 p->rwcode = val;
 p[1].rwd = 0;
--- 622,632 ----
 else
  p++;
 if (p >= specials + size of specials / size of specials[0])
! {
! fprintf(stderr, "indent: typedef table overflow\n");
! exit(1);
! }
!
 p->rwd = key;
 p->rwcode = val;
 p[1].rwd = 0;
Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
*** bsd_indent/parse.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.c Mon Nov 14 19:30:24 2005
****
*** 231,236 ****
--- 231,241 ----
 } /* end of switch */
+ if (ps.tos >= STACK_SIZE) {
```

```
+
    fprintf(stderr, "indent: stack size overflow\n");
    exit(1);
+
+ }
+
reduce(); /* see if any reduction can be done */
#ifdef debug
Only in pg_bsd_indent: parse.o
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
*** bsd indent/pr comment.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005
*****
*** 148.154 ****
 ps.box_com = true;
 ps.com_col = 1;
 } else {
! if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '\n') {
  ps.box_com = true; /* a comment with a '-', '*'
    * or newline immediately
    * after the start comment is
--- 148,158 ----
 ps.box_com = true;
 ps.com_col = 1;
 } else {
! /*
! * Don't process '\n' or every comment is treated as a
! * block comment, meaning there is no wrapping.
! */
! if (*buf_ptr == '-' || *buf_ptr == '*') {
  ps.box_com = true; /* a comment with a '-', '*'
    * or newline immediately
    * after the start comment is
*****
*** 328.333 ****
--- 332,350 ----
    goto end_of_comment;
   }
  } while (*buf_ptr == ' ' || *buf_ptr == '\t');
+
+ /*
    * If there is a blank comment line, we need to prefix
+
    * the line with the same three spaces that "/* " takes up.
+
    * Without this code, blank stared lines in comments have
+
+
    * three too-many characters on the line when wrapped.
+
    */
    if (s\_com == e\_com) {
+
      e_com++ = ' '; /* add blanks for continuation */
+
+
      *e_com++ = ' ';
```

```
+ *e_com++ = ' ';
+ now_col += 3;
+ }
} else
if (++buf_ptr >= buf_end)
fill_buffer();
Only in pg bsd indent: pr comment.o
```

1.119 postgresql-jdbc 9.4.1212

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1.120 prettyfaces 3.3.3

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1.121 protobuf 2.3.0

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1.123 python-configparser 3.5.0

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1.124 quartz 2.1.7

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1.133 stateless4j 2.5.0

1.134 Syslog4j 0.9.30

1.134.1 Available under license :

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1.137 velocity 1.7

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