```
iÜe@ Qk³jhSÈ Q
 Q
y,lìOœ Q
 Q
 Q cðq•x€O´Q zx\Ø Q w°jœ Q U0jœ Q iT Q X x€V|Uð Q U0jh Q hIUð Q iLP Q häV O(Q \ô Q alO(Q p¼ Q
k)p1/k) Q SÜ\ÔU1/4 Q SÈjœhðV Q
 QjœSÈjœh¤\ø[" QW d´^` QhphødD Qj [MO~Rä QT \¯jl Qx€U¼ QQhoĐlèhøO´U¼ QiLZÀO,\ô Q
høVì QV q,, QiÜe@ Qk³jh QSÈjœhðV _ Q^`hphø YO~QXVì Q^`_>jh QhlUðlè\ô Z QX hÜO,V Q
f U¼ Q h†lù Q \ð\ðV jl Q k,ocQ`Qtlè Q ]Đd|V Q X \Ø Q O «jl Q al[—jd[,, Q x±i SÀ Q d V jœ Q
j°jlQt Q x€P Q k=\€jÍhødD Q hÜk=hÜk=x€]~ Q SÜ\ÔU¼ Q cÔZ′ Q x€SÀx€SÀhøO′ Q O~j€ Q alU¼ Q
X x,, Q U00Øjl Q`SÜP Q j°V O(Q \ðq•SÜ Q Pxiøj Q X x,, Q h¹` jéjœ\¤ Q W P9x•Px Y~«|f Q
Œ7| ZQtlè Qt iôV QI$QX[,, QW@hðV _ Q
 Q oÓ Q_°hø Q cäf k, Q ] Q W€m Q_°hø Q iLf k, Q ^ Q hlq• Q V;_<Z´hø Q Q \Ô Q zqq€ Q hrjh Q j¤jœ Q
hðV _ Q Q h¤\ø[" Q jÔe@O( Q i\`ÁhÜdD Q Q$ Q i z€ Q W hp Q Vð Q P"OåVì Q ]ãx,, Q QhoĐlèU¼ Q f Q
k,m \Ô Q_YW y| QdD Qw¤ ] QY8U¼ QV dW Qw¤jœ QoXQu Qx€P Qd、_<V hø QXĐhÜlð QkD QO~j€ (
U0^djl Qz€\Ü Q\ôs¤ QQXb hðV _ QV|P"SÀ QjœSÈ QjœXthø Qjœ Qv<f Qk,jœZ¤U¼ QVðjœ QQ Q
\label{eq:continuous} $$h\emptyset O'Qh\ddot{a}\delta A QjHi\ddot{N}x_{s}l^{2}Q]\emptyset Z_{s}V_{q}r_{s}Q_{s}Nh\emptyset Q]Bl\ Qx_{s}Q_{s}V^{2}Q_{s}Nh\emptyset Q^{2}Bl\ Qx_{s}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{s}V^{2}Q_{
Q`VVìQh\{U^{1/4}QhlS\ddot{U}h\phiO'QdL[\}s\dot{y}Qx,,QQ\^TViQc\hat{O}VQl,Qe@Qj^jtjœV_QQ
 ]aV f xd Q x€U¼ Q y=vàjœUð Q^d[^ Q h¥ Q x,, Q oN Q f• ` Q j¤jœ Q hîV _ Q P"t i Q h [L]œ Q ]ã Q
h Q_<Vì QhIUð["W@ QQU¼ Q_ùjœZ" QT°høO´Qh¥jl Ql$hÜ Q`SÜ]œ QjÔ_\¤ Q`Ái dD Qj, Q
Rà QiPV U¼ Qj QXj€ Qf k~ Y,,: è Zhø QhÜX<Qtlè QpÑf x€i(V _ QXXZ¤dD Qj€cÔhøO´Q` Q
j Qk)jœ QhîjdUð Q^\eÐ Q_ùj lèU¼ Qht Qe@ QhîjdW@ Q_@X jœ QU,iô QO(lèP Qj¤hÜSÂQX Q
U¼ Q cð[,, Q]Đ[,,Vì Q]ã Q U=U¼ Q O Q`]œ Q I9IÅjh Q I9IÅj QX _ Q _ùjœ Q jœV(Vi[... Qf xœlè Q
QXU¼ Q i z€k,hø Q k~_Mjl Q ]aP Q oÜx,, Q Xt^`jœV _ Q Q XtVì Q QhoĐlèO( Q iLZÀO,\ôhø Q Vð Q
jl Q hãhÜdD Q k©f( Q x,, Q W @ih Q f Q k,m \Ô Q SÀ^\ Q x,, Q V jl Q cÔV Q l$hðV|Uð Q QhoĐlèj€ Q
\øhø Qj€lèx€]œ QQ QiLZ¤lð QTljœ QoÄ_Qlèp½jd["QSìalhø QV(P QS{i(V _ Q\ðjtjh Q
Q1x€P Q`°Q`jh QV lè Qhrhl Qol Qj•lèVì Qhrjh QO«jl QQ QiLZ¤lðTljœ QeGO(Z¥jh QP Q
\ôWxP Qd.jd[,, QièrDdD QWx QaĐhø QI$]aV'jœ QOAjh Qyajœ Q`°O~lèVì[... QU,O(Qa¤h•jl Q
X jœ Q oÀ_=lðx€V|Uð\ô Q Q SÈ Q k(Ti`"tX Q O(eÜjœ Q X‰Q\V ] Q_XO( Q r=Q\V P Q U0jl Q z‰ Q
ZPP Q lèZ¬_ùjl Q x€i(V _ Q Q Xt Q QhoĐlèU¼ Q i y|ih Q OAjœ Q dYjl Q SÜ] [ ] Q
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Q Q Òhøjœ ] Q iLZ¤lðTl ] Q k~Z¹` jh Q x^ Q e@O( Q hîhÜ ] Q ]ã Q ]ahÜ Q _ù ] Q ]ahÜdD Q _ù R Q hÜmt Q
Z" Q\øjœh¤ R Qi,, QU0jl Q_<\ QZPlè Q]ãxœ R Ó Q
x€P Qh{U¼ Qjœj€ QaĐjl Qx,, Q_° Qyì[LO00äV _ Qz‰ZT QU0jh Qk~Q0 Q_<\ hÜktOœ\ô QjœeÔ Q
jœ Q ]"z°hðV _ Q QhoĐlèj€ Q U0f iàVì Q ZPSpZPSpx€i(V _ Q
Q jœ Q y€j O(QQ [P Vì Q]aU¼ Q V~U¼ Q^d\Ôlè Q hrh€V Q cÔz€ Q k,`"tX Q dL[)sý Q P•^djœ Q
\ðf P Qf V P QSĐvàjl Qk Z V _ Q
Q Q Òjœ[ QiLZ¤lð QTI R Qk~MVì Q]ã Q]aU¼ QTljœ QdL[)sýjh _ QY8 QoÀ]aP QlèZ¬_ùjl Qx€ Q
O' ÓQ
Z¤P ] Q h¤V jl Q oø` h€Oœ\ô ] Q]ã Q cÔl$U¼ Q \ðjtjœ Q f iøq€U¼ Q hrh€V _ Q
Qj kD QdL[)sýjl QcÔl, Qe@Vì Qj°V _ Qh{U¼ QhÜ_ QOéhødD Q_XP v4 Q`olU¼ QODYMjœ Q
Yd`cÜ]ajœ ZhøO´Q l%jl Q cÔl, Q e@Vì Q j°V Q ^ Q v<f Q k,jl Q d,hø Q l| Q Qh Q oĐlèj€ Q \ðjt Q
jh Q w¤w¤x€i(V _ Q
QQ [ SÀ QQ j€ Qx±iÜjh QQ O [,, QQ q€lè Qhrh€V _ QXhP$ Qa•^djœ QdFi Qzx\œU¼ Q]ÑV,, Q
_ \¤ Q QX\¬l$]`UðO( Q V WD Q i,,]Ñ Q e @Oœjd[,, Q V jd]~ ] Q Q Q x•Px Q ^`jl Q Vôhl Q SÀiT Q Xt Q
i(V _ Q WÌhødD Q Òj [MO~ R Ó Q x€P Q`~\œU¼ Q d′\ÔO( Q SÂV _ Q j,QX\¤ Q `°[ Q]ppÀ Q cÔ Q
V m P m [,, ] Q
Q Q ÒSĐV(^` Q k=O~jÍQtlè Q hä\ði¼ _ Ó Q
Z¤P Q^dhðV _ Q hl\ðVì Q Q Q x•Px Q QXeAcÔhø Q j°U¼ Q jœ[" Q W QX_Qx•jl Q jœiÑx€i Q Pè Q
xİx€[L Q x•jœ\ÔZ¤ _ Q iLUÀ Q O(QX[" Q j¹k=jh Q x€i(Oœ\ô Q alU¼ Q iLP ] Q løjh Q j°P Q xœdD Q
h\ddot{U}o4x^{Q}I, Q]D\dot{w}VO(Q\dot{q}Q\dot{q}Q\dot{q}Q)VOUV
i,, Q P"Wx\^{\mu} Q ol Q f lè Q ]ãx^{\mu} Q al[... Q P P"Z^{\mu} Q h1\ j^{\mu}] k= Q T _=j^{\mu} Q al Q
\¤ Q ] jd]~ Q QhoĐlè\¤ Q WÌmûhl Q SÀi|idZÜ Q
Q Q OSĐV(^` Q k=O~jĺQtlè Q \øh(j-UðQt _ O Q
x€P QQhoĐIÈU¼ QjÈQx QI$k(x€i(V _ QQU¼ Qjœ QiØl9hø QiØjÍVì Qhîjœ QQ Q]d QPjl Q
oÈ_-O^\ÔP QO(QXO( Qf hðjtj¤Qt p QoÀjt QO« QW€m QO«jd[" QP \ô Q \ôk™x€i(jtj¤Qt p Q
hlUðV QOØr| QhlUðV _ Qjœcéx€O´Vì QRT\Ô\¤Q] ^dP QVŒalU¼ Qjœ Qx±iÜ Qh†hø Qk~Q0 Q
O©jœ Q SÔjtjœV _ Q Q \ÔP Q Iùjl Q SÀiT Q kD Q hISÜj€ Q `"séjœ Q \ðjtjœ Q r=QXhðV Q ^ Q h† Q
lù Q\ð\ðV x,,ttdD Q`"\œ[ Qi|jl QkD Q_ùj jh Qb0\ô QSĐjh QhäPœhø QjHj¤j€ Qd ^d QOA Q
jh QjHV \Ô Qs"P Qièwjx,, QU0hø Qh^O x€U¼ Qafjl QZliØ]~ ] Q
QQÒiLUÀjhQSÀO(lèQ\øhli¼_QkD_DQV}`¬høQlùhøQ`ÁhÜQj°hÜi¼_QSÜO(Qjœ[/O´QhlQ
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 $x0V^{\sim} \emptyset \emptyset _{-} \acute{O} Q$

Z¤P] Q]ĐQX Qd\ÔOAjœ QI9häO\ÔP QePjI QO Q [)O Q [)x€i(V _ QQ Xthø QQhoĐlè Q U¼ QV(e@[•lè QhrjhX jœ] Q

Q Q ÒhlXX] Q kHjí] jl QTl] Q_ì Q athÜ]ajl Q d \Ô\¤ Q V Q x€TL _ Q] `ÁX P Q hqh€jd]œ Q U, Q O(Q]ai Q cÜ\Ü Q I, Q hthl _ Ó Q

x€P Qyômu QZ hÜSÀiL[LUðQt Qy€j¸U¼ Q`ÁjÉjl QX jœ Qv<jl QSÜk(jd]~] Q

Q Q ÒSÀO(lè Q\øZ¤Vì Q Q ZÀ] Q Q []œ Q j¤o5jœ Q X hÜihi¼ _ Ó Q

x€P] Q]Ñ]|j Q d \ÔO(Q W Ì\¤ Q XXZ, V _ Q

 $Q = O^{\tilde{j}} \hat{Q} + O^{\tilde{j}}$

ià Q X x,, Q hISÜj€ Q häPœjœ Q QhoĐlèj€ Q U0h†hø Q hÜ\ hÜ\ x€i(V _ Q

Q Q ÒQ ZÀ Q SĐV(^` Q k=O~jÍQtlè Q hä\ðZ" Q \øjœi¼ p Ó Q

x€P Qx•d jh Qp0k~x,, QX jœ Qj [MO~Räj€ QhäPœjl Q_<Z¤`]~ Qydj,\øOAjœ] Q

Q Q Òj oÄ QoPO(Qi x,, Qk8hø Qj°P QQ QV jthøU¼ Qcð[,, QWx Qk8jœX O(_ÓQ