邢唷?>? ??????? 欹5@ 鳵bjbj??  ;4璛璛?G dB   ????????Z Z Z8NZ?鶾D?暽?J]蘛(鬩鬩鬩pn qt髊] ?兠Z暒?l?2 8?4 e?0暽灩 巯!巯d祭??????巯?祭|O/r/r/r捜捜??銪襋D '(??襋皊鉔Il韹韹IN蛬xQ膲? 媠郹 Email:  HYPERLINK "mailto:whui@pku.edu.cn"   whui@pku.edu.cn Xd亯 皊鉔Il韹韹IN蛬xQ (SKCC)/fN钀b?T陙6q韹娽Oo` Y t剉韹IN鍂茓揯 僛錘penc揯噀鯪b_ _6eU_哊6.6 NYOagIl韹瀃蛬 N臢賬鶴哊蟢*N蛬韹@b^\剉蛬{|0韹IN{| € N錘INy?NUSMO鎷苸蟘饛哊僛霳剉M戺N酧o`孴Y蛓韹IN膥TP?R 颯錘:N S靊:ghV?褘(W匭剉Y蛓-N噀酧o` Y t鹼邁-N剉韹IN陙≧ R恎衏汷:_ g汻剉/e c T鰁 鵞嶯Il韹蛬Gl韹INf[孴 梴蛬xQf[ xvz_NwQ g蛻亯剉aIN 0,g噀俰亯薔蛜購钀韹IN蛬xQ剉觺刧0匭筟 錘蔛韹IN^\'`y橆v剉kX橯膲?0 sQ.曂? 韹IN鍂茓揯 韹IN{| M戺N酧o` 梴蛬xQf[ -N噀酧o` Y t The Specification of The Semantic Knowledge-base of Contemporary Chinese Wang Hui1, Yu Shiwen1, Zhan Weidong2 1 Institute of Computational Linguistics, Peking University, Beijing 100871, China 2 Dept. of Chinese Language & Literature, Peking University, Beijing 100871, China  HYPERLINK "mailto:whui@pku.edu.cn"   whui@pku.edu.cn;  HYPERLINK "mailto:yusw@pku.edu.cn"   yusw@pku.edu.cn;  HYPERLINK "mailto:zwd@pku.edu.cn"   zwd@pku.edu.cn Abstract: The Semantic Knowledge-base of Contemporary Chinese (SKCC) is a large machine-readable dictionary developed by the Institute of Computational Linguistics and Chinese Department of Peking University. It can provide a large amount of semantic information such as semantic hierarchy and collocation features of 66,539 Chinese words. Its semantic classification system represents the latest progress in Chinese linguistics and language engineering. The descriptions of semantic attributes are fairly thorough, comprehensive and authoritative. The paper introduces the outline and specification of SKCC, and indicates that, as a large scale fundamental semantic resource of Chinese, SKCC will not only provide valuable semantic knowledge for Chinese language processing, but also play an important role in Chinese lexical semantics and computational lexicography research. 燢ey words: Semantic knowledge-base, lexical semantic, computational lexicography, semantic hierarchy, valence information, Chinese language processing  _?(W陙6q韹?Y t-N 韹IN R恎`S g坃蛻亯剉MOn 0 S琋'Yf[梴韹奻[xvz@b N-N褃b枴嫍{@b陙1994t^T€ T_裇 Il駛:ghV?褘!j媁鹼邁 _薡 1\@wKb x6Rb?TIl駛:ghV?褘剉 皊鉔Il韹韹IN蛬xQ  SKCC 顅剉/f(W韹誰R恎剉鶺@x N :N 梴:g陙≧
 R恎Il韹錝P[孴 u b駛韹錝P[衏汷鬴駇eQ剉韹IN酧o` 01996t^髞1998t^ 蘏筫qQ Tb舃哊齎禰863貧褃€by橆v ?u:ghV?褘_裇s^餝孴Il駛:ghV?褘鹼邁 槝 y橆v 鱏: 863-306-03-06-2 0\O:N鍕槝剉N*N蛻亯膥b钀R 皊鉔Il韹韹IN蛬xQ 蹚eQ0R'Y膲!j_裇6柕k v^諷梍6柕k'` b済 孾b哊4.9 NIl韹8^(u瀃蛬 (T蛬0≧蛬0b_筟蛬) 蔛钀R b韹0`N(u韹剉韹IN R{|孴-dM戓Oo`蟘饛[1] 0IBM 0Intel 0Fujitsu, Toshiba, NTT, Canon, Sail-labsI{20 Y禰lQ鳶N'Yf[HQ T蜰S'Y-峱N哊鍕蛬xQ剉笅颯O(uCg 0 4t^ Yeg S琋'Yf[梴韹奻[xvz@b(W飝乬擽(u 0╟^鍕蛬xQ剉 T鰁 蚇 N璭0W昩eQ汻蠎蹚L埻媥Q,g珟剉裇U\ 0蜰2001t^11 g_薡 皊鉔Il韹韹IN蛬xQ 剉孨 g_裇錧\O譙0R哊齎禰973蛻筽鶺@x xvzy橆v b?T癳麜啒遅剉Il駛:ghV?褘鹼邁 孴 b?T-N噀酧o` Y t剉皊鉔Il韹≧蛬簨鑕觺刧鹼邁孴Il韹蛬韹韹IN R{|B\ 鹼邁xvz 剉/e c 1u 梴韹奻[xvz@b孴-N噀鹼T€ Tb舃 鵞蛬xQ膲!j蹚L垉?YE^ 剉ibEQ v^鵞hQ钀蛬韹剉韹IN R{|蔛^\'`蟘饛蹚L坔Qb楊O 0(W蘏筫剉飝乬猂汻 N y橆v蹚U\梍^?^z?R 0顅MR 蛬xQ膲!j騗緩0R6.6 NYO蛬ag T鰁韹IN^\'`蟘橯(嵪?g哊>fW勑c貧0(WN*NIl駛:ghV?褘鹼邁-N剉瀃E枖^(uh?f 癳Hr,g剉SKCC颯錘:N錝IN R恎0蛬GlgkIN坢銐衏汷鬴hQb梽v韹IN鍂茓 gHe0W衏貧?褘緗 0 皊鉔Il韹韹IN蛬xQ剉匭筟俰亯 膲!j N觺刧韹IN蛬xQ SKCC 烻 g蛬ag48,835*N 僛霳hQ钀eg陙嶯S'Y 梴韹奻[xvz@b_裇剉 0皊鉔Il韹韹誰酧o`蛬xQ 0 5 N蛬Hr 0FO1999t^ T €剉膲!j騗1u5 N蛬ibEQ0R哊7 N蛬[2] dk T剉鐍韣9e蹚萐O梍^\'`酧o`剉(嵪?g哊坃'Y衏貧[2] 0鴙詋KN N 韹IN蛬xQtS蚇6q\PYu(W烻eg剉4ls^ N 鄀簨pe蠎貜/f(嵪?N 孨€龕騗 N*YOS? N齹醤硩N韹誰蛬xQM慦YO(u剉瀃E梺?0 SKCC剉孨 g錧 z蔛鰁8T6e哊韹誰酧o`蛬xQ剉g癳b済 鵞烻 g剉 蛬韹 0 蛬{| 0 Tb_  0 黚髼 0 |Q{|  0  Y鑜 I{W[祂蹚L垎N邁N纇錱0頞 € N瀀燫哊14,663*N T蛬0≧蛬0b_筟蛬 錘蔛1993*N:S+R蛬0鰁魰蛬0 Y@b蛬0筫MO蛬0oR蛬0pe蛬0皊(W韹IN蛬xQSKCC剉膲!j詋烻eg瀀燫哊1.8 N蛬韹 緩0R哊6.6 NYOag 0 蛬xQ菓(uMicrosoft Forxpro-N噀Hr6.0penc揯瀃皊 vQ-N S+ThQ钀蛬韹剉;`揯1*N 蟢{|蛬韹 瀃蛬 T鷁N揯 11*N 0蟢*N揯噀鯪龕鎷苸;R;u哊蛬韹蔛vQ韹IN^\'`剉孨魚sQ鹼0詋俌 ;`揯-N S靊蛬韹0黚髼0 Tb_ 0INy?0蕬IN 0韹IN{| 0蛬{|0P[{| 0|Q{|I{8*N^\'`W[祂0 T蛬揯緥15*N^\'`W[祂 ≧蛬揯緥16*N^\'`W[祂 俌dkI{I{ 翂h? 0 揯 T 蛬ag ^\'`W[祂 T 蛬37522  15 鰁魰蛬567 15  Y@b蛬185 15 筫MO蛬204 15 鉔 蛬236 15 ≧ 蛬21142 16 b_筟蛬3827 15:S+R蛬753 15 秗`蛬997 15 oR 蛬997 11 pe 蛬109 11;` 揯 =SUM(ABOVE)  66539  8 h? 韹IN蛬xQSKCC剉膲!j @b g剉揯龕颯錘惽? 蛬韹0蛬{|0 Tb_ 0INy? 購4*NsQ.昗[祂蹚L堽敟c 0購7h 12*N揯噀鯪刧b g N NMO鐍bsQ鹼剉 h P[觺筽鐍b6r觺筽剉hQ钀酧o` 俌1 0  SHAPE \* MERGEFORMAT     蛬韹剉韹IN R{| ,g蛬xQ韹IN R{|剉N*N鶺,g烻R/f R{|剉駇 N^ 諷砆嶯韹誰R恎剉梺? 擽(u韹IN鍂茓擽@w蛻嶯銐砆 汵臢`楉嬚l膲R緰錘銐砆剉顣槝0郪 €韹IN R{|/f(W蛬剉韹誰R{|鶺@x N蹚L垊v v^ N闟鵞 T蛬0≧蛬0b_筟蛬I{瀃蛬蹚L堩婭N R{|蟘饛 € 汵&^ g f>f h譥剉0?^(u錝誰b_ _1\颯錘h?y剉韹INsQ鹼 俌T{|Z喭? R N\O:N韹IN R{| xvz剉鵞a?0 wQSO R{|俌 N  1 T蛬R{| 1 wQSO婲ir entity uir organism 1.1.1篘 person 1.1.1.1*N篘 individual 1.1.1.1.1L€ N profession  Ye ^ 貀fN  O ;S u 1.1.1.1.2珟齆 identity  NS∣  YL? eP \ !j?1.1.1.1.3sQ鹼 relation  6r睳 ?栬Y 晥? g薙 1.1.1.2釼SO group 1.1.1.1.1:g刧 organization  錧係 ;Sb?FU梌 gR釼 1.1.1.1.2篘? society  篘l 訷XT O  \HQ ?釼O 1.1.2≧ir animal 1.1.2.1 }Q beast  譺 *s

[r ?  €N?y孭[衦鴕 1.1.2.2 ? bird !?-?粸罇 \gC? 1.1.2.3 |? fish  |? 砽Z? 笢 錶艤 1.1.2.4  fk? insect  瘑搯 鍂哊 褔倗 1.1.2.5 ,rL埁Rir reptile  R椯? LN煙 2u|? 菃 1.1.3 iir plant  h 眰 I? ar9N 崅o? 1.1.3.1  h tree  }vhg 4lIg 瓊I? 1.1.3.2 I? grass : 譺>\鬩I? +T?I? 矂lQ駛 1.1.3.3 眰 flower  ar9N 崅o?\gC? fq\ 1.1.3.4 刕k ?CQ)Ro` 1.2.1.9hync bill  裇hy USnc Glhy /ehy  S鶊US 1.2.1.10翄fN certificate  觺ZZ翄 gbgq 誯N翄 ~歷毩?1.2.1.11&{鱏(symbol) ~{ T 飴h 瓄4Y 錝鱏 1.2.1.12Pg檈 material  (gPg 翑 dq璸 籹僼 4l錶 1.2.1.13hVwQ instrument 1.2.1.13.1(uwQ tool  jRP[RP[墧P[謆奲 9e%? 1.2.1.13.2 愬]wQ vehicle  f?9?迾:g 陙L坒? 1.2.1.13.3fkhV weapon  'Y畃 :gsQ猤 |滣?1.2.1.13.4禰wQ furniture  LhP[ iP[檒裇 1.2.1.13.5PNhV musical-instrument  4t T諲 ?1.2.1.13.65uhV electricity  5u茐 zz?5u癚眥 1.2.1.13.7噀wQ stationery  { aj畍 :\P[1.2.1.13.8袕≧hV癶 sports- instrument  硩t US`g 1.2.2陙6qir natural object 1.2.2.1)YSO celestial body : *Y3?  g甆 Am f f f 1.2.2.2 la? weather : 慛 i_y? Zf ? 1.2.2.30W t geography 1.2.2.3.1 0Wh坕r land  烻螒 檒 o q\ q\ m F?W 1.2.2.3.2 4l遅ir water : _l 砽 Vn wm 砽Am 1.1.2.2.4 wir mineral  dq w 烻筶 翑 w 1.1.2.2.5 CQ } element  褢 鰯 軘 翑 1.1.2.2.6 鶺,gir(? substance  4l W pp 1.2.3 抍膌ir excrement  Wl ?\ 獆縊 vY4l ?l \O螛 2.1.2.2 婲'` description_of_event  僗礠 b_縍 秗` 痵倐 2.1.2.3 ir'` property_of_object  '`齹 He(u 罷蛓 _7h 2.1.3 湗r? color : 褳r?}vr?Emr? }r?2.2酧o` information  輯 婍?酧鯪 鉙酧 芠x 餢f P鉙 2.3啒遅 (field ) >y O 蟸Nm 誰媉 褃f[ z?g 2.4誰膲 rule  誰媉 ag OS畫 6R 膲鄗 T T OS畫 ag噀 2.5 u t physiological_state  v玼 緐舥 巔莡 ~偹n舥 2.5胈tyr乢 psychol feature 2.5.1臽 a feelings  ` a臽 1r臽 2.5.2 a茓 cognition  a {^骮 tQ ;N a 翂銐 2.6≧:g motivation  顅剉 烻郪 t1u 3 菑 z process 3.1婲鯪 event  f[no  t[? Zf O  閑? b塏 kp~p 3.2陙6q皊a? natural phenomenon 3.2.1 颯茐皊a? visible phenomenon  kp 5u IQ 螛 钖 3.2.2 颯,T皊a? audible phenomenon  餢髼 鳀#?螛磃 4 鰁魰 time 4.1 輣鵞鰁魰 specific time  媅 g N齎 n鉔 4.2 鴙鵞鰁魰 relative time  (f)Y S_鉔 銼鉔 蔔)Y 5 zz魰 space 5.1 Y@b location  Ym_l 塚n 臑q\ -N齎 歂2m 5.2筫MO direction  NWS MRb?KN魰 ?N 貧zz  2 b_筟蛬R{| 1 婲'`y O;m≧ social behavior  9ei? 岟N _ O T€"k 3.13 vQ諲L?N other event  4 oR蛬R{| 1 z  degree :坃 :c *Y v?鬴 g 乬 AS R ^?^ z z甠 eu甠 2 凈V range  龕 _N ;` qQ NqQ ;`qQ 邁邁 闟 1\ IQ 臢 臢臢 3鰁魰 time  ck  R R 1\ HQ 蟸 騗蟸 葉嶯 藌;R l?N 8l軓 4 Y@b location  0R Y  Y Y 梖-N S_:W S_b?            . 0 x z |??????????????蝈铀歉船础瑳瑫墈pcpcXOpcp  h揨2OJ QJ o(   h揨2KHOJ QJ o(   h? h?KHOJ QJ   h? h?OJ QJ   h1  h y~OJ PJ QJ o(   h_I  h y~OJ QJ o(  h?OJ  h?0J$  ?j    h?U    j h?U    h?  h y~CJ OJ PJ QJ \乷(h臙>h臙>CJ aJ # j h y~0J CJ PJ U  ^J aJ   h?CJ PJ ^J aJ o(   h臙>CJ PJ ^J aJ o(       ??L ??$ n  €d€  $ ???  7$8HXD2YD2]?a$ gd y~  $ ???7$8H]?a$ gd y~  $ ???? 7$8HXDd]?a$ gd鷚   XD2YD2gd y~ 勝?匎  VD

XD2]勝匎 gd1   $ a$ gd?   $ 勗刪剺DeWD8]勗^刪`剺$gd?  $  YD2a$ gd?   $ a$  4洛婃 ?  | ~ ??   * F H J L T X ` j r ????????矜矜菅菅矜矜裱聘瑺瑺瑫噞噋dV  h ^2 h y~6丆J$]乤J$  h y~6丆J$]乤J$o(   hgDCJ$]乤J$o(   hgD hgDCJ$]乤J$  hgD hgDCJ$]乤J$o(   h y~OJ PJ QJ o(   h? h?OJ QJ o(   h? h y~OJ QJ o(   h1  h y~OJ PJ QJ o(   h y~KHOJ aJ o(   h? h?OJ QJ o(   h揨2OJ QJ o(   h揨2KHOJ QJ o(   h? h?KHOJ QJ o( ?? " $ & , 2 4 6 L N j l n p r ??    N 钹账华虎拤拤拤vh[h[hvM>  h_I  h y~CJ \ 乚乤J o(   h_I  h y~CJ \乤J o(   h_I  h y~CJ KHaJ   h_I  h y~CJ KHaJ o( % h_I  h y~CJ H* OJ QJ \ 乤J o(   h y~CJ KHo(  h y~CJ H* OJ PJ QJ \ 乷(h y~CJ KH! h y~CJ KHOJ PJ QJ ^J o(  h y~CJ KHOJ PJ QJ ^J   h y~CJ$KHaJ$  h y~CJ$] 乤J$o(   h ^2 h y~6丆J$]乤J$! h ^2 h y~6丆J$KH]乤J$o(  N P R f j ????????  * , 0 2 X v z | ~ ???????箐咒苫瓭粷拫儖u択拑拫儖]択拑拫儖?j?    h_I  h y~U    h_I  h y~0J$o(   ?j    h_I  h y~U    h_I  h y~o(  h_I  h y~  j h_I  h y~U   h_I  h y~CJ KH]乤J o(   h_I  h y~CJ KH]乤J   h_I  h y~CJ KHaJ o(   h_I  h y~CJ KHaJ   h_I  h y~CJ \ 乚乤J  h_I  h y~CJ \ 乚乤J o(   hgDCJ \ 乚乤J o(  ?  B????< X f }}si    XD2YD2   d ゐgd_a^ 劋WD`劋gd?   む?YDd" $ ???劆刞? 7$8$H$WD XD2]?^劆`刞鷄$gdgD ???  7$8HXD2YD2]?gdgD  $???7$8H]?a$gd y~  $ a$ gd y~  $ ??? 7$8HYD2]?a$ gd y~ ???      B J L M b g ???????????? 矜苕蕴鹿獪嫓}q}dVdKdVdVAV  h"% hgDKHo(   h? hgDCJ aJ   h? hgDCJ KHaJ o(   h? hgDCJ KHaJ   h? hgDCJ aJ o(   h? hgDCJ]乤J o(! h? hgD6丆J KH]乤J o(   h? hgD6丆J]乤J  h? hgD6丆J]乤J o(   hgD5丆J o(   h ^2 hgD5丆J   h y~CJ KH  h_I  h y~o(   h_I  h y~0J$o(   j h_I  h y~U    ?jk     h_I  h y~U   "3 4 5 < Z c h s | }  €??????g h??????????箦谖诶蹿 冥鍣髬箦箦筅傮檞k筅筅蝏hgDCJ aJ o(   hgD hgDCJ]乤J   h?CJ]乤J o(   h1 CJ aJ o(   h? hgDCJ ^J aJ o(   hgDCJ KHaJ o(   hgDCJ aJ   hgDKHaJ   h? hgDCJ]乤J   h? hgDCJ]乤J o(   h? hgDCJ aJ o(   h? hgDCJ aJ   h? hgDCJ KHaJ o(   h? hgDCJ KHaJ!???????6 > J K T m n w????????????灬屿瓤岱峥岈煋釗釗焾~qeXJX  h < hgDCJ KHaJ o(   h < hgDCJ KHaJ   h < hgDCJ]乤J   hgD6丆J KHaJ o(   h ^2 hgD5丆J   h ^2 hgDCJ KH  h D hgDCJ aJ o(   h? hgDCJ KHaJ   h靎W hgDCJ aJ   hgDCJ aJ   hgDCJ aJ o(   h? hgDCJ aJ   h D hgDCJ KH]乤J   h D hgDCJ aJ % h D hgDB* CJ KHPJ aJ ph# ??????   0 2 4 6 D ^ l n ~ €???????^??糸芪藕委 軕剳诬粑躹kaZUQUJQ  h?^J o(   h?  h?o(  h?OJ o(   h臙>CJ ^JaJ   h臙>CJ ^J aJ o(   h# r hgDCJ KHaJ o(   h? h?CJ KHaJ   h?CJ KHaJ o(   h < hgDCJ aJ   h?KHaJ   h? h?CJ aJ   h? hgDCJ aJ   hgDCJ aJ o(   h < hgDCJ KHaJ o(   h < hgDCJ KHaJ   h? hgDCJ aJ   hgDCJ KHaJ o( ?????  n?????????????  F P V       L v | €???????$&<L V 卺珊 殹 汌殹憽殹憵憽憽 鷼 s  h臙>5丆J OJ \乛J aJ o(   h臙>5丆J \乛J aJ o(   h?OJ aJ o(  h?^J o(   h?OJ QJ aJ o(   h U h?OJ QJ aJ o(  hZL h?B* PJ o( ph  h?t h?B* OJ QJ o( ph  hZL h?  hZL h?B* ph  h? h?H* o(   h?  h?o( -V X Z d f???    F H L???d h j p??????         6 < B L N d f?氵谟谔奶扛檀腾蹿蹿跊跀vo遫遫fo遫h_a^OJ ^J o(  h臙>^J o(   h畗OJ ^J o(   j h畗<0J QJ U   h Pz h畗<h ~m h畗 h臙>CJ OJ PJ ^J aJ o(   h臙>CJ aJ  h臙>^J(f?  \ ^ ` b???  $ 剶剶 d $ If]剶^剶a$ gdHf 劋WD`劋劤`劤gd畗< *劋WD`劋gd畗< ??????? " 6 : N X \ ` b????????????????     $ & ( 0 6 8 < > @ B F L P R V X Z \ ` 痃疣瘘瘘瘘疣鹳账潞澈澈鳏鳒鳒鳒鳏鳒鳏鳒鳏鳏鳒鳏h 3 h_a^o(  h 3 h_a^  h_a^CJ OJ  h_a^5乷(h 3 h_a^5? h_a^5丂?o(   h臙>CJ PJ aJ   h*  h* ^J o(  h_a^^J o(   h_a^OJ ^J o(  h臙>^J o(  h_a^o(   h臙>=????????taNNNNN  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkd*  $  $ If T 杔?斾?諪p??€ p € U €??????? ? ? ? 4? la?l奣???   aN;  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkd? $  $ If T 杔?斾?諪p??€ p € U €??????? ? ? ? 4? la?l奣$劙d $ If]劙a$ gdHf    & taN;  $ 劙d $ If]劙a$ gdHf  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkd? $  $ If T 杔?斾?諪p??€ p € U €??????? ? ? ? 4? la?l奣& (0 8 > taN;  $ 劙d $ If]劙a$ gdHf  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkd[  $  $ If T 杔?斾?諪p??€ p € U €??????? ? ? ? 4? la?l奣> @ J R X taN;  $ 劙d $ If]劙a$ gdHf  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkd   $  $ If T 杔?斾?諪p??€ p € U €??????? ? ? ? 4? la?l奣X Z d p v taN;  $ 劙d $ If]劙a$ gdHf  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkd? $  $ If T 杔?斾?諪p??€ p € U €??????? ? ? ? 4? la?l奣` d n p t v x €???????????????????????????????????  (* , . 0 2 4 祠熹祠熹 祠 祠熹 祠熹苷芩扑凰痴h|, h_a^CJ QJ aJ o(   h_a^5丆J OJ   h 3 h_a^5乷(h 3 h_a^5? h_a^5乵H nH u   h_a^5? j h_a^5乁 h_a^5乷(h sa h_a^5? h_a^CJ OJ   h 3 h_a^o(  h_a^o(  h 3 h_a^5v x €??taN;  $ 劙d $ If]劙a$ gdHf  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkd? $  $ If T 杔?斾?諪p??€ p € U €??????? ? ? ? 4? la?l奣?????taN;  $ 劙d $ If]劙a$ gdHf  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkdG  $  $ If T 杔?斾?諪p??€ p € U €??????? ? ? ? 4? la?l奣?????taN;  $ 劙d $ If]劙a$ gdHf  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkd  $  $ If T 杔?斾?諪p??€ p € U €??????? ? ? ? 4? la?l奣?????taN;  $ 劙d $ If]劙a$ gdHf  $ ?  d $ If]? a$ gdHf  $ 凥d $ If]凥a$ gdHfkd? $  $ If T 杔? 斾?諪p??€ p € U €??????? 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!j!?? "h"?t  $? 匎? VD WD?]? ^匎`? a$  $? ? WD?]? `? a$  $? 刬 WD{]? `刬 a$  $? 匎?@&VD WDZ]? ^匎`?a$  $ & F% ?    ? 劆凩@&]? ^劆`凩a$ ?  凴 WD?XD2`凴 ?  XD2YD2  刦刪]刦`刪 ????????????????????!!!.!2!4!H!J!P!T!X!\!`!d!h!j!|!??????????????????????? " " " " "."4"L"T"V"Z"\"`"b"f"h"z"€"????????赀赀走赀钻哧咦赀赀赀赀赀赀钻哧哧哧哧哧咦赀赀赀赀赀钻哧咦赀赀赀赀赀钻哧哧哧哧h臙>OJ PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J   h臙> h臙>^J o( U???????????????# # # # # # #&#*#2#8#:#<#>#B#F#J#^#b#j#r#v#z#~#€#??????????????????$$ $ $$$ $ $*$,$0$4$6$:$<$@DHLbfnvx$|$~$??鲭鲭泠脒膂膂膂膂膂膂膂脒膂膂膂膂脒膂膂膂脬鲭唠鲭鲭泠脒膂膂膂脬鲭剡仉鲭鲭鲭鲭鲭鲭鲭鲭 h臙>^J o(   h臙>h臙>OJ PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J U?? #N#?? R?? %D%~%?? &b&??  $? 劏 剕黓? ^劏 `剕黙$ $? ? ]? `? a$  $? 劀 刲鼲&]? ^劀 `刲齛$ $? 勳]? `勳a$  $? ?WD\]? `?a$ 刬 WD{ `刬 ?WDm `? ??????????????????% % % % %&%.%0%4%6%:%<%@%N%T%V%d%f%h%l%p%t%x%|%~%??????????????????? & & & & & & &&&,&:&B&F&J&絷絷絷絷絷絷絷絷絷翕牯牯牯牯牯牯圩埕搪搪题牯牯怅糅综怅糅综絷絷絷絷翕牯剪牯 h臙>PJ   h臙>OJ PJ ^J   h臙>OJ PJ ^J o(   h臙> h臙>^J o(   h臙>OJ PJ   h臙>OJ PJ ^J   h臙>OJ PJ ^J o( JJ&N&R&V&Z&\&`&b&p&t&v&~&€&?????????????????????' ''''' ' '"'$'('*'.'0'>'J'L'Z'f'h'n'p't'v'z'|'????????????????????鲭鲭鲭泠谟嫌膂膂膂膂脬鲭呻鲭鲭鲭鲭呻鲭鲭鲭鲒哨泠膂想鲭鲭鲭泠脍鲒膂膂膂膂膂膂脬 h臙>PJ   h臙> h臙>^J o(   h臙>PJ ^J o(   h臙>OJ PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J O?0'|'? (\(??)`)??,*~*? +\+?  $? 劺凥@&]? ^劺`凥a$ ? ? UD?WD?]? `? ? WD?`?  刬 WD{ `刬 $? 劏 剕黓? ^劏 `剕黙$ $? ? ]? `? a$  $? 劺刣@&]? ^劺`刣a$??????????? ( (( (($(:(D(F(J(L(R(T(Z(\(l(p(€(????????????????????????)))).)4)<)D)F)J)L)P)R)V)X)\)t)~)?????????綦咫糅糅糅糅粲埕埕埕埕埕盂糅糅糅糅糅籼忍媵埕埕埕垭遨糅粲埕埕埕埕埕埕埕埕埕埕埕h臙> h臙>^J o(   h臙>OJ PJ   h臙>OJ PJ ^J  h臙>PJ   h臙>PJ ^J o(   h臙>OJ PJ ^J o( O??????????  * * * *"*&***,*@*F*j*r*t*x*z*|*~*?????????????? + + + + +(+L+T+V+Z+\+f+l+n+????????????????絷絷絷翕牯牯牯牯怅絷絷絷翕牯牯牯牯怅絷絷絷翕牯牯牯怅糅综晖曷悸猜猜猜掺h臙>OJ PJ ^J  h臙>PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J   h臙> h臙>^J o(   h臙>OJ PJ   h臙>OJ PJ ^J   h臙>OJ PJ ^J o( F??*,V,??*-j-??B.`.??(/J/?? 0^0?? ??? WDm `? 匊WD_ `匊凴WD?`凴刵WD  `刵?WDm `? 刬 WD{ `刬 ? WD?`?  ? WDZ `? ???? ,,,,, , ,$,8,>,P,R,d,j,r,z,??????????????????????????? --- - -$-(-*->-D-R-X-Z-\-^-`-b-d-~-??????????????爿泐泐泐泐泐泐尤尤尤尤尤鱼尤尤尤尤尤尤鱼扔扔扔萨尤尤尤尤尤尤尤尤尤尤尤尤h臙>OJ PJ ^J o(   h臙>OJ PJ ^J  h臙>PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J   h臙>OJ PJ O???????...... .".$.(.,.0.2.6.8.<.>.N.T.\.^.`.l.v.???????????????????????????? / /$/&/(/./4/F/H/J/T/^/r/t/x/|/~/??????????????絷絷絷絷絷絷絷絷絷絷絷絷絷翕牯牯牯牯牯牯牯牯牯怅絷絷絷絷翕牯牯怅絷翕牯牯牯牯牯牯牯牯怅絷h臙>OJ PJ   h臙>OJ PJ ^J   h臙>OJ PJ ^J o( Y??????? 0 0@0H0J0N0P0T0V0Z0n0t0???????????????????????? 1 1 1 1 1"1$1(1*1.1014161:1<1B1F1X1^1`1d1h1l1n1r1t1x1z1€1???????????????????鲭鲭鲭鲭鲭鲭鲭鲭鲭鲭鲭鲭鲭泠膂膂膂膂膂脬鲭鲭鲭鲭鲭鲭鲭鲭泠膂膂膂膂膂脬鲭鲭鲭鲭鲭鲭鲭鲭鲭泠h臙>OJ PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J Z?<1z1? 2H2?? 3 3l3??L4b4?? 5D5 匊WD_ `匊凴WD?`凴劌WD* `劌勳WDX `勳$?? ??黓? ^?`?黙$$ & F ?   p ? 勮?? ^勮`?$剨WD?`剨 ??剨WD?`剨????2 2 2 2 2 2 2 2$2&2D2F2H2R2V2X2h2j2p2t2x2|2€2????????????????????????3 3 3 3 3 3 3 3&3*3,36383>3B3F3J3N3R3T3X3\3`3d3f3j3l3r3z3絷絷絷絷翕曩椅意牯偃亵牯牯怅糍荣絷絷絷絷絷糍荣絷絷翕牯椅意牯偃亵牯牯牯牯牯牯怅 h臙>PJ   h臙> h臙>^J o(   h臙>PJ ^J o(   h臙>OJ PJ   h臙>OJ PJ ^J   h臙>OJ PJ ^J o( Oz3|3??????????????? 4 4 444<4@4D4F4J4L4P4V4^4`4b4j4t4??????????????????? 5 5 5 5 5"5*5,505256585<5>5B5D5J5P5b5j5l5p5r5v5x5|5~5??????哧暨赀赀赀赀赀牯哧哧咦赀赀钻哧哧哧咦赀赀赀赀赀赀赀钻哧哧哧哧哧咦赀赀赀赀赀赀坐豇h臙>OJ PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J   h臙> h臙>^J o( UD5???? 6N6??? 727Z7???.8r8?? 989t9?? 劌WD* `劌凴WD?`凴勲??  XD2YD2^勲`?匊WD_ `匊?????????????????? 6 6 6$6>6D6F6J6Z6`6v6|6~6€6???????????????????7 7 7 7 7 7 7 7(7,7.70727>7B7P7T7V7X7Z7f7j7€7?????????????????鲭鲭鲭鲭鲭鲭泠膂膂膂膂膂膂膂膂膂脬鲭鲭鲭泠膂膂膂膂膂膂脬鲭鲭鲭泠膂膂脬鲭鲭鲭泠膂膂脬鲭鲭鲭h臙>OJ PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J Z?????8$8(8*8,8.8:8>8h8l8n8p8r8~8??????????????????9 9 9 9 9$9&9*9,909296989B9F9\9`9b9d9f9j9l9n9p9r9t9~9?????????????????????鲭泠膂膂脬鲭鲭鲭泠膂膂膂脬鲭鲭鲭泠膂脬鲒在在在在增谠谠谠谠谠谠鲭鲭鲭鲭鲭泠膂膂膂膂膂 h臙>PJ   h臙>PJ ^J o(   h臙>OJ PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J T?????????::::: : :::::::: :&:*:<:B:D:H:L:P:R:V:X:b:f:t:v:x:z:|:~:€:???????????????????????????? ;;;;; ; ;$;&;.;2;F;L;P;T;X;\;`;綮怍怍怍怍怍怍怍怍怍怍焘翕翕翕翕綮怍怍怍怍怍焘翕翕翕翕翕綮怍怍怍怍怍焘翕翕翕翕綮怍怍怍怍h臙>OJ PJ ^J   h臙>OJ PJ   h臙>OJ PJ ^J o( Y? :X:????&;f;???? <4  h臙>^J o(   h臙>OJ PJ ^J   h臙>OJ PJ   h臙>OJ PJ ^J o( U???? = = = = = = = =$=(=,=0=2=:=@=N=V=Z=^=b=f=j=n=p=x=?????????????????? > > > > > > > >(>.>D>J>N>P>T>V>f>l>x>~>????????????????????????泐泐泐泐泐泐泺钽钽钽钽钽泐泐泐泐泐泐泐泐泐泐泐泐泺钽钽钽钽钽钽钽钽钽钽钽钽泐泐泐

泐泐h臙>OJ PJ ^J o(   h臙>OJ PJ ^J   h臙>OJ PJ Z? >^>??B???>@擛翤褸"ApA糀BF埐撇FV€  劆 劦鱒D?WD 黕劆 `劦 ??齎D?WD ^?`??勍?  WDD2YD2^? `勍 勱?VDW WD ^勱`???????? ?"?&?*?.?2?4?8?@F@P@n@v@z@~@侤咢夽嶡濦 ˊ睝碄継繞翤腀艪蠤褸訞贎鍬絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷翕牯牯牯牯牯牯怅絷絷絷絷絷糅昭贳眼眼怅絷h臙> h臙>PJ  h臙>^J o(   h臙>OJ PJ   h臙>OJ PJ ^J   h臙>OJ PJ ^J o( R鍬鐯闌霡頏餈駺鬇鯜鳣鶣麫兀A A A A A A A A A A A A A"A$A*A4A:AA@ABADAFAHALANARATAXAZA\A^A`AbAdAfAhAjAnApArAxA€A咥圓孉嶢怉扐擜朅欰淎燗 ˋ珹瓵睞碅窤続腁訟蹵郃銩鐰霢餉鬉鳤麬B絷絷絷絷絷絷絷絷絷絷絷絷翕牯牯牯牯牯牯牯牯牯牯牯牯牯怅絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷絷h臙>OJ PJ   h臙>OJ PJ ^J   h臙>OJ PJ ^J o( X5憳  frequency  8^8^ 8^ 鰁8^ 萐 峇 貜 蛻癳 蛻 6筫_ manner : n n ?n (c!k (c*N  愽e垟 baba 7&T歔 negation  N g *g 珒 O R +R 8 韹l modality  tS 颯 P 遺 _N 1\ OPOP OP 龕 €{魐 "}'` x^廚 緰S?0R昢 vz遺 _N笅 b笅 'Y 'Y俰  5 pe蛬R{| 1鶺pe cardinal number 1.1鹼pe N 孨 $N N 擭 mQ  N kQ ]N 郠 1.2MOpe AS 0~v 0CS 0 N 0縉0 N N 1.3俰pe YJS  Y \ 鍌r^ 坃Y 笅Y }Y Y }Y郠 }Y汵 鄀pe 2廭pe ordinal number ,{N ,{孨 ,{AS 3pe蠎 amount  N R 笅Y 坃Y N \ 'Y蠎 钀R hQ钀 @b g 镺 蛬韹剉韹IN^\'`蟘橯 R{|誰;R;u婲ir鶹6q€{m 0 npf 0蚐 f哊蛬韹g鶺,g剉韹IN酧o` FO酧o`棙抾 儚'Y ^\嶯 TN韹IN{|剉蛬韹蚇颯齹TwQyr筽0俌 h?y ≧ `婲鯪 剉≧蛬 vQ≧\O剉裇鶴€;NSO R颯齹孾hQ N T 1U b 剉;NSO/f 篘 uS 剉;NSO/f ≧ir 絙Wz 剉;NSO/f iir ╩no 剉;NSO/f 陙6qir  0萐俌 砙?0A~?0 僱0 u u }?q龕/f '`(? {|b_筟蛬 FOvQ@b齹頞p檮v T蛬'`b R_N/f N T剉 砙? (u嶯c 篘 A~?  c iir 僱 c 陙6qir u u  c 颯邩ir  0 郪dk :N哊蹚Nek衏貧:ghV?褘鹼邁bvQ諲陙6q韹?Y t鹼邁剉'`齹 韹IN蛬xQ貜亯(W R{|剉鶺@x N 漁`梌\'`蟘饛eg;R;u蟢N*N蛬韹NhT鬡 T蛬'`b R@b裇 u剉韹IN膥TsQ鹼0  T{|蛬揯剉qQ TW[祂 錘 N魦f-N 鎉箯剉N RwiSOIlW[鉔h圵[祂 T -N魰剉N RpeW[h?y T*NW[祂@b`S剉W[倐pe 0骃箯剉蛬韹R/f鵞W[祂y. 1998. pp 361-367. [2] 轔隭vl 1gf[? 媠郹. 0皊鉔Il韹韹誰酧o`蛬xQ 0剉癳蹚U\ . 0-N噀酧o`f[02001t^,{1 g. [3] 轔隭vl, 1gf[? 媠郹, _S^tI{. 0皊鉔Il韹韹誰酧o`蛬xQ鎷銐,{2Hr 0. nNS'Yf[鶴Hr>y. 2002 [4] Christiane Fellbaum. ed.. WordNet: an electronic lexical database. Mass: MIT Press. 1998 [5] 嶯_l u, 轔隭vl. CCD剉觺刧N緥 `骮 . 0-N噀酧o`f[0. 2002, 16 (4). pp 12-20. [6] c?c N, c?_. 鍂Q  Hownet . http://  HYPERLINK "http://www.hownet.com"   www.keenage.com. [7] F栱O f. 0皊鉔Il韹M戺N韹誰xvz (廭 0,  S琋'Yf[鶴Hr>y1995. pp1-7. [8] 亪觡梘. N鱊 T蛬剉 鍂xvz , 0-N齎韹噀 01994,{4 g [9] 亪觡梘. 皊鉔Il韹孨鱊 T蛬xvz . 0皊鉔Il韹M戺N韹誰xvz 0 S琋'Yf[鶴Hr>y1995. pp29-58.. D朥_ kX橯7h婳  1 T蛬揯蛬韹蛬{| Tb_ INy? x 韹IN{| M戺Npe 耂gqSO 鵞a?WORD  €N?n ≧ir 0 tiger ?n 1 1 uir刧鯪1 篘/≧ir leg ?n 2 2 ^?uir刧鯪1 (uwQ Leg  a翂n 1 1 鍂2 篘瀃SO/絙a宨r view  a翂n 2 2 鍂2 篘篘/婲鯪objection  2 ≧蛬揯蛬韹蛬{| Tb_ 韹IN{| M戺Npe;NSO SO  N婲WORD `??v 啒^\l忹y 3 篘瀃SO 篘present JT蓩v 酧o` Am 3 篘酧o` 篘tell 裇絺v 豐S 1 iir sprout 頞鷁v 2  R ?2 篘鷁Q{ir build  3 b_筟蛬揯蛬韹蛬{| Tb_ INy? x 韹IN{| M戺Npe;NSO 鵞a?

WORD 'Y a 1  Yb_ 1 wQSOir big 'Y a 2 '`(?1 钖 / 陽 heavy 錬$c a 僗礠1 zz魰/鷁Q{ir crowded 韕臽a sQ鹼2篘篘warm ,g xvz梍0R齎禰973蛻筽鶺@x xvzy橆v b?T癳麜啒遅剉Il駛:ghV?褘鹼邁  y橆v鱏 G1998030507-4 N b?T-N噀酧o` Y t剉皊鉔Il韹≧蛬簨鑕觺刧鹼邁孴Il韹蛬韹韹IN R{|B\ 鹼邁xvz  y橆v鱏 G1998030507-1 剉/e c 0 僛霳GW/f蜰S琋'Yf[梴韹奻[xvz@b_裇剉 0皊鉔Il韹韹誰酧o`蛬xQ 0 2002Hr [3]-N魐 鐍b €eg 0購 N臢軴翄哊韹IN蛬xQ6e蛬剉膲?`0鑜髼N蛬'`h鑜剉芉nx'` € N_NO梍僛颯惽? 蛬韹0蛬{|0 Tb_ 3*NsQ.昗[祂N韹誰酧o`蛬xQ蹚L堽敟c 鴙扤M?TO(u 蜰 €O 梴:g穬梍鬴孾Y剉韹誰0韹IN酧o` 0 購4蛓&{鱏剉歔IN T7h?u嶯,g蛬xQ≧蛬揯-N剉 SO 0 N婲 W[祂錘蔛 T蛬揯孴b_筟蛬揯-N剉 耂gqSO  0 鵞a? 蔛 ;NSO I{W[祂0 皊鉔Il韹韹IN蛬xQ膲@BHNZ\`dfjlprvx~偛啿埐姴惒牪Σú 安膊床恫覆翰疾静啦虏牟撇什胁嗖娌璨瓴觳畈鸩虿舨霾   "&(,. 梵梵梵梵梵梵梵梵梵梵梵梵梵梵梵梵栲箬箬箬箬箬箬箬箬箬囿梵梵梵梵梵梵梵梵梵梵梵梵梵梵梵梵h臙>OJ PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J  U  X.248:>@DFHJTVX^|~€喅幊惓挸敵柍槼毘湷灣牫⒊こΤǔ 俺渤汲诔艹獬璩瓿畛鸪舫龀   "(DLNRTXZ\bnvx|~偞劥埓姶幋惔敶柎絷絷絷翕圩垅牯牯怅絷絷絷絷絷絷絷絷絷絷翕牯牯牯牯牯牯牯牯牯牯怅絷絷絷翕牯牯牯牯牯牯牯h臙> h臙>^J o(   h臙>OJ PJ   h臙>OJ PJ ^J   h臙>OJ PJ ^J o( U€冻艹 ZΥ即8LN确史 @B灨矢6F ?]? $?]? a$  刦 劋WD]刦 `劋   XD2YD2 ? ?齎D?WD ^?`? 劆 劦鱒D?WD 黕劆 `劦 劄 刜鵙D` WD攸^劄 `刜 剼 刟鵙D_ WD冱^剼 `刟柎毚湸牬⒋ごΥù捍即ǖ 牡频薜嗟 BDZ\pr埗姸樁毝68JLNV品确史畏絷絷翕谕煤埠埠埠埠埠埠埠埠埠疇摦墌vpe  h臙>OJ PJ ^J o(  h臙>OJ   h臙>OJ PJ   h臙>OJ PJ ^J o(   h臙>OJ PJ ^J   h臙>5丆J \乛JaJ   h臙>5丆J \乛J aJ o(   h臙>h臙>OJ ^J   h臙>OJ ^J o(   h臙>CJ PJ aJ   h臙>CJ PJ ^J aJ o(   h臙>CJ aJ   h臙>OJ PJ   h臙>OJ PJ ^J   h臙>OJ PJ ^J o( %畏诜夥娣璺攴旆龇  ,.>BHt湼灨じ母雀矢谈 46:@DFHf8^b|惡満 负泻嗪  CJ OJ PJ aJ  h臙>CJ OJ PJ ^J aJ o(   h臙>CJ OJ PJ ^J aJ   j h臙>U  mH nH u    h臙> h臙>^J o(   h臙>OJ PJ ^J o(  h臙>OJ   h臙>OJ ^J o(   h臙>OJ ^J   h臙>5丱J \ 乛J 9FV 埢录附v鼐> LN ? ?勮鵠? ^?`勮 ??勂 ?勮鵠勂 ^?`勮? ?勳鵙D WD齗? ^?`勳 ? ?]? ^? ? ? XD2]? ^?? @&]? ? 劷WDZ]? `劷gdU  ? 刾剱鱓DP鸧? ^刾`剱 ? 刾凞鴀? ^刾`凞 \v偦劵埢\^`bdf布醇都讣杭技兰录鸺蚣艏黾 (*,.02FHJLNP樈毥牻⒔ ń 步督附冀薪旖罱鸾蚪艚鼋 6Jbpt疴疒酉酉酉酉酉酉酉酉酉酉酉酉酉酉酉酉悠酒酒酒酒腑酒酒酒酒酒酒酒酒酒酒h臙>OJ PJ ^J o(  h臙>OJ   h臙>OJ ^J   h臙>OJ ^J o(   h臙> h臙>^J o(   h臙>CJ aJ   h臙>CJ OJ PJ ^J aJ  h臙>CJ OJ PJ ^J aJ o( Dtvz埦惥簿淳谰戮芯揖志鼐芫婢鹁 48<>BPX埧娍⒖た 部纯犊 "DFJLP\fLNT^f枇炅*,vx偮幝黛豳匈匈匈惺看 傩傩ｌ豳匈匈惺鞕嵭傩傩黛豳惺灬傩傩傩寿h臙>5丱J \乛J o(   h臙>OJ PJ ^J   h臙>5丱J \   h臙>OJ ^J   h臙>5丱J \ 乛J   h臙>OJ PJ ^J o(  h臙>OJ   h臙>OJ ^J o(   h臙>OJ ^J   h臙>5丱J \乛J   h臙>OJ PJ ^J o(   h臙>5丱J \?Nx  改 H:tt  $? 8 ? 劆刞鷀? ^劆`刞鷄$$ ??? 劆刞鷀? ^劆`刞鷄$ 勸WDd`勸gdU  刪剼D WD€ ^刪`剼 ??D, WD* ^?`?$?]? a$ ? 劌刐鵠? ^劌`刐 ? ?勮鵠? ^?`勮$ ??? ?勮鵠? ^?`勮鵤$ 幝柭搪致媛  (bdpr劽捗斆樏⒚っγ 旅杳昝
2:OJ PJ   h臙>CJ aJ   h臙>5 丆J \ 乛J aJ o(   h臙>5 丆J \ 乛JaJ   h臙>5 丆J \ 乛J aJ o(  h臙>^J  h臙> h臙>OJ o(  h臙>o(   h臙>5 丱J PJ \   h臙>OJ PJ ^J o(   h臙>5 丱J \   h臙>5 丱J \ 乛J  h臙>OJ   h臙>OJ ^J o(   h臙>OJ ^J,   $&24FHb呐婆遗峙芘嗯媾昱 (,.8:`b屒柷毲溓⑶で吻厍芮耷淝媲&(<@DTX(.@BDb樕毶犐どㄉ渖嫔焐蛏 8:T屖幨糸嶝嶝嶝嶝议蒯厍蒯厍匾贺液匾匾嶝液匾嶝裔匾嶝嶝轻厍蒯囟裔厍蒯秦音槎匾嶝h臙>h臙>CJ H* OJ ^J aJ   h臙>>*OJ ^J o(  h臙>OJ   h臙>OJ ^J o(   h臙>OJ ^J   h臙>5丱J \乛J   h臙>OJ PJ ^J o( G:bで媲D嫔:幨€鹚,.~ 勸WDd`勸gdU    ??勍?鶺D=齘勍`?$ ?8 ? 剨剉鷀? ^剨`剉鷄$ $?8 ?]? a$  $? 8 ? 劆勝鵠? ^劆`勝鵤$$ ?8 ? 劆刞鷀? ^劆`刞鷄$$?8 ? 剶VD?]? ^剶a$幨捠準なㄊ笆嗍馐 ~€埶娝捤钏鹚 *,.4:BNPTVbdhjvx|~鲲脞垅逾吐馔翻 悅ug_敕掠庥庥庥庥庥馔h臙>CJ aJ   h臙>5丆J \乛J aJ o(   h臙>5丆J \乛JaJ   h臙>5丆J \乛J aJ o(   h臙>OJ PJ   h臙>OJ QJ ^J o(   h臙>OJ QJ ^J   h臙>OJ PJ ^J   h臙>OJ PJ ^J o(   h臙>5丱J \乛J  h臙>OJ   h臙>OJ ^J  h臙>^J o(   h臙>OJ ^J o(   h臙> h臙>5乗h臙>PJ ^J o( %~樚"$*,bd  拔涛樝毾合枷老孪尴<>LNR\`d炐犘涡行中嘈>Dd~盅匮蜓02468F^`fjl|捯斠溡酪乱   ^`捰蹯潇潇潇潇潇搋熹熹燹潇潇帐跗潇潇揿潇潇潇搋旌斐瞥熹斐瞥熹斐瞥瞥剖跗潇潇 h臙>^J o(   j h臙>0J OJ U    h臙>h臙>OJ PJ ^J o(   h臙>5丱J \  h臙>OJ   h臙>OJ ^J   h臙>OJ ^J o(   h臙>5丱J \乛J F~拔孪N行匮斢愒 VX栔|z 勸WDd`勸gdU     $? 8 ? 剨?]? ^剨`?a$  $ ? 8 ? 剨VD?]? ^剨a$  $? 劆刞鷀? ^劆`刞鷄$$?8 ? 剚VD?]? ^剚a$  $? 8 ? 剨剉鷀? ^剨`剉鷄$$ ?8 ? 劆刞鷀? ^劆`刞鷄$捰斢氂τ lpx~傇堅娫幵愒斣栐炘⒃υ @FJN恼收哉卣拚湔枵钫 TVX^lx~屩捴斨爸嘀庵熘蛑.0D 轳轳揆檗耖聱娱饶轳 轳轳揆檗耖揆榷 撃幽屇屇屇屇屇屇 h臙>^J o(   h臙>CJ aJ   h臙>5丆J \乛J aJ o(   h臙>5丆J \乛JaJ   h臙>5丆J \乛J aJ o(   h臙>h臙>5丱J \乛J   h臙>OJ PJ ^J o(   h臙>>*OJ ^J o(   h臙>OJ ^J   h臙>OJ ^J o(  h臙>OJ 7DJr幾FHL^柏肛呢曝呜胸蜇 x~栙樫溬 0z~傏堏広斱②ぺ蹿囤稼磊纶谮挹孚柃蜈糈鲒 踽籴吁 豳嵊耆 豳嵊柔结籴结硬 觞觞波槒垙 h?KHo(   h?{ h?KH  h? h?5丆J QJ aJ o(   h臙>CJ ^JaJ   h臙>CJ ^J aJ o(   h臙>>*OJ ^J o(   h臙>5丱J \乛J  h臙>OJ   h臙>OJ ^J   h臙>OJ ^J o(   h臙>OJ PJ ^J o(  h臙>^J o(   h臙>3栔tH胸樫ぺ囤挹柃蜈栛t 刧剻?d@&G$WDU ^刧`剻d?  $別剾DV ^別`剾$gd? *  XD2YD2gd?  & F    $? 8 ? 剶VD?]? ^剶a$  $? 8 ? 劄刡鶺DS齗? ^劄`刡鷄$$ ?8 ? 劆刞鷀? ^劆`刞鷄$ 斲溮ほ 槽篡钝港刿谯苒 "$*Xrtvxz|败,.0246娸屳ㄝ 柽柽柽温嘎獫戼豉魣鶃豉堸堸豉豉y 鵴h?{ h?o(   h?{ h?6? hu| h?  h?{ h?KH h?B* aJ o( ph  h蜠i h?B* aJ ph  h?B* PJ aJ o( ph  h蜠i h?OJ o(   h?B* PJ aJ ph  h蜠i h?B* PJ aJ o( ph  h?OJ QJ o(   h蜠i h?OJ QJ o(  h?o(  h?{ h?,t. 噍b擂~愡掃犨 策歼 $?$If a$  ? $ If   XD2YD2  & F  YD2 刧剾D WDV ^刧`剾d?  $刧剻DU ^刧`剻$gd? 別勚 VDWD?^別`勚 gd? 別剾DV ^別`剾d? 剷 別剾DV]剷 ^別`剾d? 拜草狠驾掭噍蜉糨:<>\^b娹屴庌愞栟樲 肄赞孓燹  02^fz~€庍愡掃斶栠炦犨み 梵阼谚篾燃鳃代苞苞苞苞苞苞苞苞苞 洃瑠瑠瑎h臙
>5 乗乛J o(  h臙>^J o(   h臙>CJ ^JaJ   h臙>CJ ^J aJ o(  h臙>^J  h臙>h?  h? h?o(  j 楌h?CJ aJ o(   h?CJ aJ o(   h?{ h?0J$  ?j9     h?{ h?U    j h?{ h?U   h?{ h?  h?o( 2み 斑策哼歼逻倪蔬踢疫赃剡谶膺溥孢赀爝钸暨  (*.026:BDFHJLT^`d 犭犭犭 钩 櫎攼鹿倡 櫎攡攡攼鹿倡 櫎h臙>;乛J o(   h臙>;丱J ^J   h臙> h臙>;?h臙>;丱J ^J o(  h臙>;丱J   h臙>OJ ^J  h臙>@堺 h臙>@堺 ^J o(   h臙>CJ aJ   h臙>5 丱J \ 乛J  h臙>5? 乗乛J o(   h臙>5? 丱J \? h臙>5? 丱J \ 乛J o(  h臙>5 乗?歼倪踢赃谶溥孢爝疬蜻暨  *.8: Ff   ? $ If  Ff?  $ ?   ? $ If a$ $ ? $ If a$ :BDHLPT`djltv|€勦堗庎掄栢む 班多Ff? Ff    $  剷 ?$If UD?]剷 a$  ? $ If  Ff?  $ ? $ If a$  dhltvz|~€堗屶庎掄斷栢氞溹⑧む 班脆多膏亨锣凄揉锑梧朽亦脏剜卩钹疣蜞羿  黩铈葑先看闰黩黩黩铈葑先看闰黩黩黩铈 巹巹帨h臙>5? 丱J \? h臙>5? 丱J \ 乛J o(  h臙>5 乗h臙>5 乗乛J o(  h臙>^J o(   h臙>;丱J ^J o(   h臙>;丱J ^J  h臙>;丱J   h臙>OJ ^J  h臙>@堺 h臙>@堺 ^J o(   h臙>CJ aJ   h臙> h臙>;?h臙>;乛J o( 0多亨距锣揉锑朽卩钹疣   &,2<  $  剷 ?剴 ?$If UD?VD?WD?]剷 ^?`剴 a$ gdU  ? $ If ?  XDdYD2 Ff!  $  刧 ?$If UD?]刧 a$ $ ? $ If a$   $&*,02:<>BDFJRTXZ\`bdvx|~€勧屷庒掅斸栣氠溼炨 搬册瘁羔坚踞尼柔提茚掎忉溽驷栳灬繇繇繇沩仨星凉钵并櫌櫌檿星凉钵并櫌櫌檿星凉钵并櫌曅橇共h臙>;丱J ^J   h臙>h臙>;乛J o(  h臙>;?h臙>;丱J ^J o(  h臙>;丱J   h臙>OJ ^J  h臙>@堺 h臙>@堺 ^J o(   h臙>CJ aJ   h臙>5 丱J \ 乛J   h臙>5 乗乛J o(  h臙>5 乗h臙>5? 乗乛J o( 7<>DHJTX\bfvx~傖勧庒掅栣溼犪 册夺羔Ff? Ff ( $ ? $ If a$  ? $ If  Ff? 羔踞箩梳提吾茚掎溽栳灬蜥鲠 "(.4 ?  XDdYD2 Ff?  $  剷 ?$If UD?]剷 a$  ? $ If  Ff6/  $ ? $ If a$   $  剒 ?$If UD?]剒 a$  灬疳蜥鲠  "&(,.24<>DFLNRTXZbdfhjlptxz~勨堚躅猷猷檐酝芡苊籍ぎぎぎ紭紭紭紞荚剘v頼躅猷h臙>;丱J ^J   h臙>OJ ^J  h臙>@堺 h臙>@堺 ^J o(   h臙>5 丱J \ 乛J  h臙>5? 乗乛J o(   h臙>5? 丱J \? h臙>5? 丱J \ 乛J o(  h臙>5 乗h臙>5 乗乛J o(  h臙>^J o(   h臙>CJ aJ   h臙>h臙>;乛J o(  h臙>;?h臙>;丱J   h臙>;丱J ^J o( *4>FNTZdfjnptz~嗏堚愨掆栤氣溾犫︹ Ff? ? $ If  FfN6  $ ? $ If a$  堚愨掆斺栤樷溾犫も︹ 扳测糕锯殊题锈意遭阝掴噔溻桠赈疴翕  "$&0246DJ嗐犮︺钽 脲葜吐纸唇唇 脲葜轮酱酱近綦遢致纸唇唇 灀灀瀮 h? h* OJ QJ ^J aJ o(   h? h* OJ QJ   h? h* OJ QJ o(   j h* 0J U    h臙>;乛J o(  h臙>;?h臙>;丱J ^J o(   h臙>;丱J ^J  h臙>;丱J   h臙>OJ ^J  h臙>@堺 h臙>@堺 ^J o(   h臙>CJ aJ   h臙>3 尖锯殊题意肘剽阝噔溻蜮翕  "Ff駺$剷 ?$If UD?]剷 a$  ? $ If  Fff=  $ ? $ If a$   剷 剷 ?$If UD?VD?WD?]剷 `剷 "&024 B厘洛腻棋`bdf|~€傛勬嗘堟婃gd_a^   $  刪]刪a$    匄 ?&`$&d  P? a$ gd_a^      Ff~D  $ ? $ If a$   "&ptv武驿桎翡@BDFH惧厘洛棋噱B镢拊赊酣逕棢悷寪焺詙oy宬孻J  h* CJ OJ PJ ^J aJ o( # h_a^ h* CJ OJ PJ ^J aJ o(   h燝d  h* OJ QJ ^J   h* OJ QJ ^J o(   h畗<h* o(   h*  h* ^J o(   h* OJ ^J   h* OJ ^J o( " h S h* H* KHOJ QJ aJ o(  h* H* KHOJ QJ aJ o(   h* KHOJ aJ o(   j h* 0J U   h* o(   h? h* OJ QJ o(  h? h* KHOJ QJ ^J o

(  BFHTVXZ^`fhtvxz|€傛堟婃庢愭掓樻氭滄炴ゆ︽ㄦ 叉存舵褶褶娃窠汞┋灟┕椆搱z筼aX筼aX筼a  h薆 h* CJ   h+  h* CJ PJ aJ o(   h* CJ PJ aJ o(   h+  h* CJ PJ aJ o(   h* CJ PJ aJ o(   h燝d  h_a^ h*   h燝d0J mH nH u   h* 0J   j h* 0J U    h*  hHf h* CJ OJ PJ aJ o(! h燝dCJ KHPJ aJ mH nH u  % j hHf h* CJ KHPJ U  aJ  hHf h* CJ KHPJ aJ!婃愭掓氭滄炴︽ㄦ 存舵兼炬梨墟怄滏骀鲦 $a$ gd* 舵烘兼炬梨怄滏骀翩 翩茇嫖亓娓卮h臙>h("   h薆 h* CJ   h+  h* CJ PJ aJ   h薆 h* CJ o(   h*   h薆 h* CJ o(   h+  h* CJ PJ aJ o(   h?CJ PJ aJ o( 9 0 1? 2P:pHf 皞. 捌A!? "? #悹$悹%癝班 惄D猩陏?寕K?   whui@pku.edu.cn嗌陏?寕K?.mailto:whui@pku.edu.cn D猩陏?寕K?   whui@pku.edu.cn嗌陏?寕K?.mailto:whui@pku.edu.cnD猩陏?寕K?   yusw@pku.edu.cn嗌陏?寕K?.mailto:yusw@pku.edu.cnD猩陏?寕K?   zwd@pku.edu.cn嗌陏?寕K?,mailto:zwd@pku.edu.cn $  $ If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣$$If 杔!v h 5?  p 5?   U 5? ?#v p #v  U #v ?:V 杔斾?????,?5?  p 5?   U 5? ?4?  a?l奣Dd X <?? 餌? 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