9f8 ePsf / 9f8 gePsf hgfj/x¿

s]Itdln]cfÇgf]z/l/sf]k5fl8 5fDbf alrdf s8f xf8 ePsf]cgej u/\$f 5f}k s}l hgfj / / dflg; x¿sf]z/l/sf]k5fl8k6l&sf]alr efudf /x\$f]bfpsf]jl/hfl\$P/ sDd/; Dd /x\$f]nfdf]xf8 g}9f8 xf]. o; nf0{d}b08 klg elg65 . Itdln] cfÇgf]3/ j /k/ o:tf 9f8 ePsf hgfj /x¿ b}y\$f 5f}<hr/>hgfj /x¿ lj le6g k\$f/sf x65g\ Ps k\$f/sf hgfj / csf]k\$f/sf hgfj /; Ugfk, cfsf/ / agf\$df km/s x65g\ xfdf j /k/ dVo u/l b0{k\$f/sf hgfj /x¿ 5g\ sg}hgfj /sf]z/l/df 9f8 x65 t sg\$f]z/l/df 9f8 x6\ . uf0{e}l, sV/f, s\$/, df5f, ; k{ Eofutf] k/]f cflb 9f8 ePsf hgfj /x¿ xg\ lrKn[s/f, u8\shf)f, ktnl, Ç6\fallfafa \mathbf{h}f, dfs/f cflb 9f8 gePsf hgfj /x¿ xg\

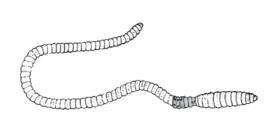


9f8 ePsf hgfj/x¿sf]z/l/leq xf8 xG5 . To; h]loglx¿sf]z/l/ bxf] xG5 . 9f8 gePsf hgfj/x¿sf]xf8 xbg / loglx¿sf]z/l/ g/d xG5 . hgfj/sf z/l/sf]; DkUf{xf8x¿sf]; d\nufl(s^a\nufl){s^a\nuflight}fn -skeleton_ elgG5 .

kf7!

Itdln] cfÇgf] 3/ jf lj Bfno j/k/ 9f8 gePsf hgfj/x½ klg bly\$f xfħf . lenuf, nfdv&&] lrKn]s/f, u8&fħf cflb 9f8 gePsf hgfj/x½ klg w]/5g\ xf8 gePsf s}kl hgfj/x½sf]; //Iffsf nflu aflx/l s8f vfħx½ xG5g\ h:t}M z^a w]s/f, ; lkl, uu6f cflb . gf a 0f cf a 0f cf a 0f s6]/of h:tf ; -; fgf hlj b]v lnP/ uu6f, lj R5l, z^a 1 w]s/f, u8&fħfh:tf hlj x½ xf8 gePsf hgfj/; d a 2 d a 3 o; /l hgfj/x½nf0{9f8 ePsf / 9f8 gePsf u/l d a 3 d a 3 d a 4 d a 5 d a 6 d a 7 d a 8 gePsf hgfj/; d a 8 d a 9 d

$xf8n]z/L/nf0{cfwf/lbG5}$



xf8n]z/L/nf0{lglZrt cfsf/ lbG5

sf\[\] \dflg; \cup \lflig; \k8\[\] \s; \sf\[\] \hp 7\hf\] / \s; \sf\[\] \hp ; \fgf\[\] \lsg x\[\] \s xf\[\] \fg xf\[\] \s x

ePsf dflg; cUnf / 5flf xf8 ePsf dflg; k8sf x65g\ss/ / dflg; sf] cfsf/ lsg leGg ePsf]xflf < dflg; sf]cgxf/ klg xf8sf]cfsf/sf sf/0f Pscsflf6 km/s ePsf]xf].

IzIfOf Igb≹g M

s) ls/fx; h:t) z^a ls/f, uf) s/f cflbsf] z/l/sf aflx/s8f vf) x65 t/of] 9f8 xf) g eGg hfgsf/l lbgxf] \

ljøfsnfk!

Itdf[]j|/k|/kf0g]|j|eGg|k\$f/sf|hgfj/x;sf]cjnf\$g|u/l|9f8|ePsf|/9f8|gePsf|hgfj/x;df|s\$]km/s|kfp5f}5nkm|u/.

linofsnfk@

cfÇgf]3/jf ljBfno j/k/kf0g]kfrkfrcf ϕ f 9f8 ePsf / 9f8 gePsf hgfj/x;sf]; ψ l tof/ u/.

cEof; !

7Ls jfSodf -3_ / a]Ls jfSodf -5_ IrÅg nufpmM

- -s_ $z/l/sf]k5fl8k6f6 sDd//6fpsfsf]alr efudf kf0g]xf8nf0{9f8 eGb5g}.$
- $-v_9f8 ePsf hgfj/x_2sf]lglZrt cfsf/ xG5$.
- $-u_xf8n]z/l/nf0\{g/d/alnof]agfp5$.
- -3_ xf8 gePsf hgfj/x \geq sf]z/l/s8f xG5.

cEof; @

vfnL 7fpdf IdNg]zAb e/ M

- $-s_x fdf[z/l/sf]k5fl8sf]alrsf]s8f_efunf0{====eb5g}$
- $-u_k / skm/s + gfj/sf]xf8sf]cfsf/ = x65$.
- $-3_9f8 ePsf hgfj/x \ge sf]z/L/leq = xG5$.

cEof;

 $tnsf k \slash gx \ge sf \slash pQ/ n \slash M$

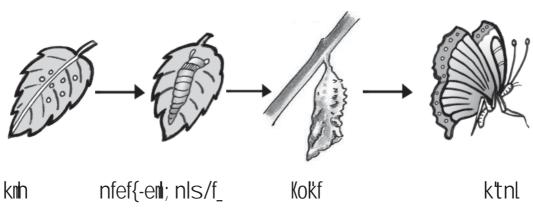
- -s_ 9f8 ePsf / 9f8 gePsf hljx2alr b0¢f ϕ f km/s n ψ .
- $-v_xf8sfb0cfffsfdx_in$.
- -u_ xf8x \geq sf sf/0fn]dflg; x \geq s; /L PscsfQf km/s xQ5g \searrow
- $-3_sasfn egsfsxf<$

klm kfg]/ aRrf hGdfpg]hgfj/x¿

 $s \footnote{SV/fsf]kllnaf6} r \footnote{SV/fsf} r \footnote{$

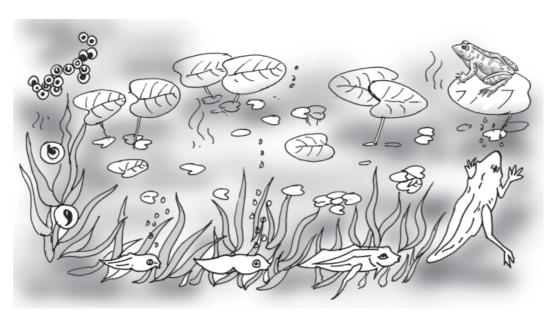


; Gtfg pTkfbg ug'{; hlj sf nIf0fdWo]Pp6f dVo nIf0f xf]. hgfj/n]aRrf hGdfP/ jf km kf/]; Gtfg pTkfbg u5 $\{$ \ hgfj/x\n]; Gtfg pTkfbg gug $\{$ \ xf]eg]o; sf]cl:tTj g}/xg]lyPg .



d]/f]lj 1fg, :jf:Yo tyf zf/Ll/s lzIff MsIff \$

kf7 @



Eofutfsf]hljgrjn

sgsg hgfj/n]klin kf/\flackf]b\rangle\frac{1}{5}f\rangle

 $df5f, Eofu'tfn]sxf''kin kf5g'xfihf < s]Itdl eGg ; S5f) < df5f / Eofu'tfn] kfgldf kin kf5g'\ ls/f kn6of^a\text{vfx}_n]la?jfsf kftx_df kin kf/] 5f8\text{sg}\ ol kinx_nf0{sd tfk rflxg]ePsfn]; 0af6 kfkt tfkn]o; nf0{Gofgf]agf0/fV5 . df5f, Eofu'tf, ; k{/ ls/f cflbn]r/fn]h:tf]kin / rNnf jf ar]fsf]:ofxf/ ubag\$

aRrf hGdfpg]hgfj/x¿

Itdln]sgsg hlj sf aRRffx¿ bl/\$f 5f}k tl aRrfx¿ aRrf g}kl/f ePsf xg\ls kmaf6 lg:s\\$f xg\s]ltdl eGg; S5f}k hgfj/x¿ sg/h]kmaf6 aRrf sf/N5g\eg]sg/h]aRrf g}hGdfp5g\ ss/, la/fnf h:tf hgfj/n]km kfb/gg\ loglx¿n]kfeq}lj sf; ePsf]aRrf hGdfp5g\ e}ln]kf8f]jf kf8lnf0{rfl6/x\\$f]bl/\$f 5f}k aRrf hGdfpg]hgfj/n]cfÇgf]aRrfnf0{:ofxf/; f/u5g\ aRrfnf0{dfpsf]b\w r'; fP/ xsff/5g\ loglx¿n]cfÇgf]aRrfnf0{; km; U3/ /fVgsf; fy}zqaf6 arfp5g\ ss/n]cfÇgf 5fp/fx¿nf0{b\w r'; fPsf]t bl/\$}xfhf. 5fp/fnf0{rnfpbf l/; fP/ es\\$f]klg ofb u/\\$f xfhf. uf0{dflg;, ss/, 5rCbf] d'; f, rd/f] Åj h cflb hgfj/x¿n]aRrf hGdfp5g\ aRrf hGdfPkl5 b\w r'; fP/ xsff/5g\ o; /L lj leGg hlj hgfj/x¿sf]; Gtfg pTkfbg ug{tl/sf km/skm/s xG5.

IzIfOf Igb≱g M

ljøfsnfk!

cfÇgf]3/jl/kl/kf0g]kln kfg[kfrcf]f hgfj/x<math>2sf; lt tof/ u/.

ljøfsnfk@

cfÇgf] 3/ jf ljBfno j l/kl/ kf0g]b\\\r'; fpg]kfrcf\\\f\ hgfj/x\timessf]; \text{L} tof/ u/.

ljnofsnfk#

tn lb0Psf hgfj/x¿dWo]cfÇgf aRrfx¿nf0{x]/lj rf/ / :ofxf/; \; f/ ug]/gug ${5b\alpha fpm M}$

Åj þ	dfp; hl	sfu	dflg;	df5f
la/fnf]	; k{	k/] f	ss/	Eofutf

d/f]lj 1fg, :jf:Yo tyf zf/ll/s lzIff MsIff \$ —

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r/fx¿sf s:tfs:tf u8 ltdLn]bysf 5f} vfh / cjnfsgsf cfwf/df lrq agfpm. tl u8x¿ agfpg s\$]j:tsf]k\psi_ePsf]5, kQf nufpm.

cEof; !

7Ls jfSodf -3_ / a]ls jfSodf - 5 _ IrAg nufpm M

- -s_ uf0(n)aRrf hGdfp5 . _
- -v_ Eofu'tfn]kftdf kin kf5{. _
- $-u_d f5fn]klin kf5{t/klinsf]x]/rfx ub{l} . _$
- -3_ kfoM aRrf kfpg]; hlj n]cfÇgf aRrfnf0{bW r'; fp5g\ -

cEof; @

hf\{\bar{g}}f \text{ IdnfpmM}

-S_ -V_

 $-c_d'f$ - _ kfgldf klin kf5{.

-cf_ k/**]**f - _aRrf g}kfp5 .

-0_ df5f - _ la?jfsf]kftdf klin kf5{.

-0{ k'tnl - kfgldf km kf5{clg :ofxf/ u5{.

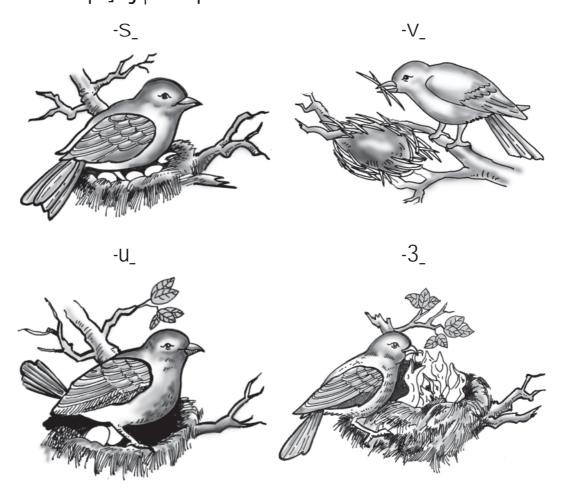
- _ u8df k1n kf5{/ k1nsf]:ofxf/ u5{.

cEof;

tn lbOPsf hgfj/x¿dWo]sgn]km kf5{/ sgn]aRrf hGdfp5, 56&fpmM

8fkiji	u ÿ f	af∨f	rd][f]	xf"
k/] f	uf0{	3f ₿ f	af3	e ₿ f
		d]/f]l	j 1fg, :jf:Yo tyf zf/Li	l/s lzlff Mslff \$

cEof; \$
tnsf lrq x/L jrd ldnfpmM



cEof; %

- -s_ sV/fn]h:t}tdf]j/k/ kf0g]sgsg hgfj/n]khnaf6 aRrf sf95g\ ; f]v / ltgsf gfd n]v .
- -v_ s\$/n]h:t}ltdf]j/k/ kf0g]s\gs\g hgfj/n]aRrf h\u00adfp\u05g\\ b\u00fc r\u00e4fp\u05g\\l10adf n\u00adf .

cEof; ^

- -s_ aRrf kfpg]; hlj x¿n]cfÇgf aRrfsf]:ofxf/ s; /l u5()\k
- -v_ r/fn]k\u00e4n kf/\u00e4l5 aRrf glg:s]\u00e40d s;/l x\u00e4\rfx u5\u00e4\ki
- -u_ kinsf]xi/rfx gug{sg}rf/cfif hlj x¿sf]gfd n]v . ltglx¿n]r/fsf]
 h:tf]kinsf]:ofxf/ ug{kbi/g, lsg <</pre>

∨fħ

sv/f kflnPsf]7fpdf u0{x}/} jf ; flyk5 u/L tn lb0Psf s/fx \geq kQf nufpmM

- -s_ sv/f slt dlxgfsf]ePkl5 km kfg{yfN5 <
- $-v_cfyf/f]a; f]slt lbgkl5 rNnf sf95 <$
- -u_ sV/fn]Ps k6ssf]cfyf/f]a:g];do;Dddf ;fdfGotof sItcfyf km kf5{<
- -3_ ; a}kinaf6 rNnf sf95 Is sf910g <
- -a_ sgsg}kinaf6 rNnf aGg g; Sgfsf sf/Of ss]xg ; S5gk