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Nttrt	[2 flμB μfl t° t	
N ° r'x' p ®	[2 fl'wfl t° t r² μ² fl® tβ	
atx' βt t® t°'	[2 flμB μfl t° t ° 2ff² ≤t ° upqβr	
K2 2' β	f wkt'βp° -' rt°'	
b' βprt fftxw	MW6>9@7	665 v4® B5B; 2fau
cwxz° t—	MW6>9@7	53 ④ ④ B6; ④ x-
f p'tβsμ²' βt-x' p° rt upr'²β	MW6@6	8: 555
-s sp' t	MW6@6	69 ④
-s sp' t1w ④ xsxfl2spβpq t	MW6Y 67: <7	53: 2E7: ④
v sp' t		<5 V W-4/
v sp' t1w ④ xsxfl2spβpq t	MW6Y 67: <7	63: 2E67: V W-4/
epμ²' βμtβ² tp° rt	HbcV M@2H	538 μtβ² -
epμ²' βμtβ² tp° rt1w ④ xsxfl2	MW6Y 67: <7	C 538 268 μtβ² -
spβpq t		
Pflsβ -put sp' t -s.	L RW; >>5527	7 ④
b' βprt q' βxv rwpβpr'tβ-x-	HbcV M-9	K p—H -Np® t bμt ps 5Bb® 2zt stst 2μ® t°' xstf18:.
N@ r p—	MW68: 5626	M
Hβxw° t—	HbcV M6<	5359 ru® 4J
Hβxw° t—	MW67669	ct'-ts
ct° -xt -βt° v' wV L 4KL	MW68: <@6 H.	895 Wt r® 4775 Wt r® B8@q4° 47: q4 x
M²° vp' x° V L 4KL	MW68: <@6 H.	6:) 46:)
Wpx 'tpβt-x' p° rt V L 4KL	MW68: <@6 H.	755 W4755 WB9: q 49: q
L' βpqxx flputβpβx rxp pvtxv	MH26>4669;	[p-ts
ct® μtβp'' βt β-x' p° rt	MW665@MW67@1MW 67@	[tβp° t°' 295 K' 2 >5 K B295 N' 2 6;< N
cwtβ® p r² s' r' xsxfl		539 f 4® T. B5B cd x 4wul N
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d

epμ²' βr²°' β - spμ²' Brwtrz ²βt'pβtβ ④ t® qβp° t μβ' -t ²° β²u-1ffp -1rtxxv-p° s ²2β-2° -' β r'' βt-' wp' pβt ²μt° ²βr 2-ts '2
sx ' -x ²° 'wt tfitβt3 p'4xrwts β²u-p° s vβt° β²u-1pjtβpμμβ μβp't st-x° rpr' p'x° -wpst qtt° rpβt 2' 3

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655@	957; ; 8@6678<		75 ④	63 ④		85 ④	9 zv	6	97
655@	957; ; 8@66799		: 5 ④	63 ④		<: ④	@zv	6	75
655<;	957; ; 8@66@@		: 5 ④	8 ④		6: 5 ④	6>zv	6	75
67777	957; ; 8@77778		: 5 ④	8 ④	⇒	6: 5 ④	6>zv	6	75

d

- ✓ l t' - μ² → q t μ³ tr' x° p v p x° - 2 x' - sp° p v t' 2 - β r'' β - p° s 2' s q t r p' - t' w - μ³ s' r' x - w 2 x s x f l 2 s p β p q t f f x w p s p β p' x° 2 u p u p r' 2 β 2 u 2 s t β 655
- ✓ Kp° q t r 2 2 q x° t s f f x w p q β' - x' - p' x° 2 p' t β p - x' r' s x v q 2 f f 2 x' x' - p' x° .
- ✓ 2 v 2 t β p μ³ t r' x° A p t β p p° r t' t s p° s r t β x t s q f l x s t μ t s t' t' x' v p' w β f l - M H 26 > 4669; .
- ✓ [β' t' t s f f x' t β q x s x v - x t' - w p z - 2 w f l s β - p u t q t w p s x' β
- ✓ c t' - f f x' t β x H μ x 7567 f f x w' w t O t β p μ³ s' r' 2 t' - x' v p' s p' x° b' x l' v f p β' t' -
- ✓ M p - f l' 2 f f 2 β f f x w s x t° - x' p f l' - p q t 1 2 - μ x' x' v 2 β' t p β μ p v p' x° .
- ✓ M i r t t' s p' t - x w p f f 2 s' - - q' p' r t' t' - x' v 1 w p - q t t' - t s p r r 2 β x v' 2 w t B Y 6; 555 t s p' p' x° - r w t 2 t

k

f w t β μ² → q t 1 R M U Y [W b - w' s q t x' - p t s x' - r w p f f p l ' w p' p s w t - x' r p' q t r p β t s 2' - x' v - x' v t 2 - s t s p s w t - x t' p u t 2 2 w - μ³ ' t s . - s t 2 u' w t - w t t' x v 3 R - w' s q t x' - p t s p' p° s f f x w p' - p r z t x w t β x μ p β p t f f x w 2 β p u t β x s x' p β' 2 w t - μ p 2 β x v - β r'' β t 3' w t β p u t β - 3 R ' w t r p - t 2 u w p f f 2 p x' - p p' x° - p t p u t s x' p β' 2 w t - μ p 2 β x v - β r'' β t 1 w t - t p u p p' x° s x' p° r t 2 u' w t - μ p 2 β x v - β r'' β x x' x t s' 2 p p' p f i x' 2 u 655 r 2 u 655 r 8 - 8 s H u t β x' - p p' x° 1 p t p u t s x' p β q p' t - 2 w t x' - s t p' p - t p u p p' x° s x' p° r t 2 u p p' p f i x' 2 u 5 r 6, > 9 6 0 - q t " t s' 2 r p β f l ' w t f f t x w w 2 u' w t x' - p' x° 2 p' t p β p 3

R u t v' p' t' - x t' 2 p s - 2 p s w t - x t' p u t q 2 s - p β' 2 q t t f i u t r' t s' - p t p f i p' p u t 1 s' t' 2 w t f f t x w w 2 u' w t x' - p' x° 2 p' t p β p f f w t' - x' v 2 p' 2 β p p' t 2 w p u t s x' - p' x° 2 p' t p β p - 1 p' p s x x' p' - μ p 2 β x v q p' t - w' s q t " t s' 2 s t β w t 2 s t β p u - t p x' v 3 f w t' p' p r w x v' w t 2 t p q p' t - x' w t r p - t 2 u p' 2 p' 2 p u p' t 2 w p u t s x' - p' x° 2 p' t p β p - 1 p' p f i x' 2 - t p u p p' x° s x' p° r t 2 u 65 2' 6: r 2 - 9 0 6 2 ; % p p u t - t p' t w t u p' t - x' v - p u t - 1 f f w w w' - q t p' t p' - 6 5 0 2 - 8 4 0 2 f f x t q f l > 4 6 ; % 2 2 v 3 c w t 2 s t β p u - q t f f t t' w t q p' t - t p' t w t u p' t - 1 f f w w w' - q t p p u p f 3 > 2 6 5 r 2 - 8 0 6 2 9 0 6 3

H x x w w - t p - r p 2 w f l q t p r w t s t s 2 s p u p' 2 B r 2 2 p' 2 p' q p' t - w p' w p s t q t t p s f f x w p' - p' s - 2 B r p p t - 3 e t' x p' t p v' p p f l' 2 μ p t s t' t f i r t - x t w 2 s x f l - t 3' s 3' B v' w t r 2 2 - β r' x° μ p p t - 3 R - p' t p' x° p' t p' x° 2 2 - r x t' 2 B 2 s t p p u t - t p' t - p' x° x' 2 u 2 u 2 x' 2 B s' t' 2 r 2 2 - β r' x° f f 2 β x w p' q' x s x v p' t - p s f f t B x u t - p p f 3

c 2 μ p t s t' r 2 s t - p' x° 2 R M U Y [W b - w' s q t - t p t s p' p u t s x' p' p x w w 2 p' t p x w 2 p' t s x p' t f l p u t B' w t x' - p' p' x° 2 u 2 p' 2 B p p' t 2 - w p u t s ' w t B p' p x' - p' x° 2 p' t p β p - 3 c w x - μ p p x' p p f l p p u t - f f w t' f f 2 β x v x' f f x' t p 3

D , R M U Y [W b r p' p - q t' - t s p - p q 2' s p p f l p f l t B p p 2 f f 2 x' x' - p' x° 2 p' t p β p - 2 u p' f l u t - 3 H B x x p p t t' - β r'' β t' - β - w p' w t B x x' t t f i p p' - x' s' B v' w t q 2 f f x v 2 x' μ p p t - 3 R - p' p' x° x' μ p p t f f x w' w t - μ p 2 β x v - β r'' β w p - w t p s p o p v t w p' w t y x' f f x q t 2 2 p - 2 x s q p - t p' s x μ p' t' t s q f l w - q p - t 3

c w t - t p p p' x° s x' p' p r t q t f f t t' w t - p u t - t s' 2 u p - t' w t t p q p' t - t p' t - w p' - q p' t - 2 u 6 5 r 2 - 7 0 6 2 9 0 6 3 b p p u t - w p' s q t 2 B t' t s μ p p t f f x w r 2 2 - β r' x' x' q t p p' - w p' t p q p' t - s 2 2 t p p p' w t - p u t - f f w t x' - p' x° 2 p' t p β p x - q t x' v q 2 f f 2 x' 3 R u x' - p' p' x° x - r p p f l s 2' μ p u t s x' p p' 2 w t - μ p 2 β x v - β r'' β t 1 p - μ p 2 β x v q p' t - w p' s q t " t s s x t r' f l 2 s t B' w t t p q p' t - t p u 2 s t B p u f f x w x - p p x w w - t p x v x' 2 B t p' 2 p' x' t' - x t' 2 p s x v 2 2 w t p s w t - x t' q 2 s 3

f w t f f 2 β x v x' r 2 s 2' s 2 2 B r x 2 p' t - 1 w t q 2 f f 2 x' x' - p' x° 2 p' t p β p - w p' s q t x' - t p t s x 2 p' t s x p' t f l p u t B x - p' p' x° 2 u R M U Y [W b 3 c w x - f f x μ p' t r' w t t p q p' t p v p x' - r 2 s t - p' x° 2 p' t p' x° 3



cwt x p'x° μβsts wt x-qp-ts 2° μβr'xp t fijutBt°rt p°s 'wt
r' Bt°' -p't 2uz°2ff tsvt3f t Bt-tBt 'wt Bww '2 @ pzt rwp°vt-'2 'wt
Bt2@t°sts st-w°-p°s μβrt→xv 2B'2 @ pzt p'tβ'x°-s' t '2
'trw'xp st≤ 2μ@t°'-p°s p→r xp'ts x@ μβ≤t°'-x' 'wt ' p xfl2u2' B
μβs' r'-3f t ff2' s qt wpmfl'2 x@ B@ f2' 2u'wt r' Bt°' 'trw'xp -'p't
2u'wt pβ p' 'wt x@t f2' -t 2' Bμβs' r'-3

N BwtBx@p'x° pq2' x-p'x° p°s st-w° st'px-x-pwpq t x' 'wt
μβ r @p μp°x v s2r' @t°'p'x°3Ruf2' wp≤t p°fl 't-x°-1μtp-t
r2°'pr' jμβ r @p ctrw'xp b' μp2B1-w'μ-Aμβr @p32@ 4tBxt4
'trw'xp 2' μp2B.3

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awt x'p -βp t 8: 298
L 2; >78 brwfft'ff@ vt°
N° A09 @5. ; 7 57 27 >73
tV pxAx@ G μβr @p3t

