

# Calanders

CREATE U Aptitude (in Telugu)

Calendars

Leap Year  
 $\text{Century} \div 400$

$1700/400 \times$   
 $1800/400 \times$   
 $1900/400 \times$   
 $2000/400 \checkmark$   
 $1600/400 \checkmark$   
 $2100/400 \times$   
 $1400/400 \times$   
 $1500/400 \times$   
 $1200/400 \checkmark$

$400 \overline{) 1700} (4$   
 $\underline{1600}$   
 $100$

$400 \overline{) 2000} (5$   
 $\underline{2000}$   
 $0$

$4 \overline{) 1964} (4$   
 $\underline{16}$   
 $4$

$4 \overline{) 64} (16$   
 $\underline{4}$   
 $24$   
 $\underline{24}$   
 $0$

$1796 \rightarrow ? \text{LY}$   
 $+ 4$   
 $\underline{1800} \times$   
 $+ 4$   
 $\underline{1804} \checkmark \text{LY}$

$8 \text{ yrs}$   
 $+ \text{Day} = 24 \text{ hrs}$   
 $23.59.56$

$1596 \rightarrow ?$   
 $+ 4$   
 $\underline{1600} \checkmark$

# CREATE U Aptitude (in Telugu)

## Calendars

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① The last Day of a century cannot be Tue, Thu, Sat

② The last Day of a century can be Sun, Mon, Wed, Fri

③ The First Day of a century cannot be Wed, Fri, Sun

The First day of a century can be Mon, Tue, Thu, Sat

Non Leap Year / Normal Yr

① Jan & Oct - Same Calendar

② Feb, March, Nov  
Feb 1 = March 1 = Nov 1

③ April, July (Same)

④ Sept, Dec (Same)

Leap Year ↓ (Feb 29)

① Jan, April, July (Same)

② Feb, August (Same)

③ March, Nov

④ Sep, Dec

# CREATE U Aptitude (in Telugu)

## Calendars

If 24<sup>th</sup> Jan, 2015 is Tuesday, then 28<sup>th</sup> October 2015 would be which day?

24<sup>th</sup> Jan 2015 - Tuesday / 28<sup>th</sup> Oct 2015 → Tue + 4 = Saturday

Jan + Feb + March + April + May + June + July + Aug + Sep + Oct  
~~7~~ + ~~28~~ + ~~31~~ + ~~30~~ + ~~31~~ + ~~30~~ + ~~31~~ + ~~31~~ + ~~30~~ + ~~28~~  
 0 + 0 + 3 + 3 + 3 + 3 + 3 + 3 + 2 + 0

Normal Year

Jan - Oct

Feb - March - Nov

April - July

Sept - Dec

24<sup>th</sup> Jan - Tue

⇒ 24<sup>th</sup> Oct - Tue

28<sup>th</sup> Oct - ?

++ + 4 days

25<sup>th</sup> - Wed

26<sup>th</sup> - Thu

27<sup>th</sup> - Fri

28<sup>th</sup> Oct 2015 - Sat

If 16<sup>th</sup> March 1988 is Tuesday, then 25<sup>th</sup> Nov, 1988 would be which day?

16<sup>th</sup> March - 16<sup>th</sup> Nov  
Tue Tue

$$\begin{array}{r} 4) 88 \text{ (22)} \\ \underline{8} \\ 8 \\ \underline{8} \\ 0 \end{array} \quad \text{--- LY}$$

16<sup>th</sup> Nov - Tue

23<sup>rd</sup> Nov - Tue

24<sup>th</sup> Nov - Wed

25<sup>th</sup> Nov - Thursday

If 4<sup>th</sup> Jan 1988 is Tuesday, then 25<sup>th</sup> May, 1988 would be which day?

Jan + Feb + March + April + May  
24 + 24 + 31 + 30 + 25  
~~4~~ + ~~4~~ + ~~3~~ + 2 + ~~4~~

Tuesday + 2 days

25<sup>th</sup> May 1988 = Thursday

### Calendars

If 25<sup>th</sup> May 1988 is Thursday, then 4<sup>th</sup> Jan, 1988 would be which day?

Jan + Feb + March + April + May  
24 + 24 + 31 + 30 + 25  
~~4~~ + ~~4~~ + ~~3~~ + 2 + ~~4~~

Thursday - 2 days

4<sup>th</sup> Jan 88 = Tuesday

Calendar

If 12<sup>th</sup> Oct 2013 is Friday, then 16<sup>th</sup> April 2013 would be which day? (Mon)

A + M + June + July + Aug + Sep + Oct  
~~14~~ + ~~31~~ + ~~30~~ + ~~31~~ + ~~31~~ + ~~30~~ + ~~12~~  
 3 + 2 + 3 + 3 + 7 + 8  
 11 = -4 days

Friday - 4 days  
 16<sup>th</sup> April 2013 ⇒ Monday

Calendar

If 22<sup>nd</sup> April 2006 was Sunday, then 22<sup>nd</sup> April 2012 will be which day.

22<sup>nd</sup> April 2006 — Sunday  
 22<sup>nd</sup> April 2007 → Monday  
 22<sup>nd</sup> April 2008 → Wednesday  
 22<sup>nd</sup> April 2009 → Thursday  
 22<sup>nd</sup> April 2010 → Friday  
 22<sup>nd</sup> April 2011 → Saturday  
 22<sup>nd</sup> April 2012 → Monday

5/10  
 Feb 27

365 (52 weeks)  
 35  
 15  
 14  
 1 = odd

### Calendars

If 22<sup>nd</sup> Jun 2009 was Sunday, then  
12<sup>th</sup> May 2013 will be which day.

22 <sup>nd</sup>	Jun 2009 - Sun	2) 365 (52
"	" 2010 - M	35
"	" 2011 - T	(div) 15
"	" 2012 - W	14
"	" 2013 - F	(1: Feb 12) 1 - odd.

  

22 <sup>nd</sup> Jun 2013 - <u>52</u>	3 + F + 17 + A + 200	Friday + 5
12 <sup>th</sup> May 2013 - ?	2 + 28 + 31 + 26 + 12	Wednesday
Wed	2 + 3 + 1 + 8	
	5	

### Calendars

If 25<sup>th</sup> Nov, 1543 was Saturday,  
Find 25<sup>th</sup> Nov, 2043 ?

Sol

After 500 yrs

⇒ 400 + 100 yrs

⇒ +5 days

⇒ Sat + 5 = Thursday

4)  $\frac{100}{100} (25-1)$  NLY

+100y	→ +5 days
+200y	→ +3 days
+300y	→ +1 day
+400y	→ Same day
+500y	→ +5 days
(400+100)	
+600	+3 days
(400+200)	

If 25<sup>th</sup> Nov 1843 was Saturday,  
Find 25<sup>th</sup> Nov, 1543 ?

Sol

Before	Ans
100	- 5 day
200	- 3 day
300	- 1 day
400	- Same day

Sat - 1 Day  
⇒ Friday

4)  $\frac{100}{100} (25-1)$

+100y	→ +5 days
+200y	→ +3 days
+300y	→ +1 day
+400y	→ Same day
+500y	→ +5 days
(400+100)	
+600	+3 days
(400+200)	
...	

Calendars

Which Year immediately after 2013 will have same calendar as 2013

Given Year =  $\frac{\text{Rem}}{4}$

Given Year	Rem	After
1 → 6 yrs		
2 → 11 yrs		
3 → 11 yrs		
0 → 28 yrs		

2013

4) 13 (3)

$\frac{12}{1}$

① → +6 yrs

2013 + 6 = 2019

2014

4) 14 (3)

$\frac{12}{2}$

② → +11 yrs

2014 + 11 = 2025

2015

4) 15 (3)

$\frac{12}{3}$

③ → +11 yrs

2015 + 11 = 2026

2016

4) 16 (0)

$\frac{12}{4}$

④ → +28 yrs

2016 + 28 = 2044

2017

4) 17 (1)

$\frac{12}{1}$

⑤ → +6 yrs

2017 + 6 = 2023

2018

4) 18 (2)

$\frac{12}{2}$

⑥ → +11 yrs

2018 + 11 = 2029

2019

4) 19 (3)

$\frac{12}{3}$

⑦ → +11 yrs

2019 + 11 = 2030

2020

4) 20 (0)

$\frac{12}{4}$

⑧ → +28 yrs

2020 + 28 = 2048



### Calendars

Which Year immediately after 2013 will have same calendar as 2013

Rem	After	Before
1	→ +6 yrs	- 11 yrs
2	→ +11 yrs	- 11 yrs
3	→ +11 yrs	- 6 yrs
0	→ +28 yr	- 28 yrs

### Calendars

Which Year immediately before 2013 had same calendar as 2013 (2002) sol

$$\begin{array}{r} 4) 13(3 \\ 12 \\ \hline 1 \end{array}$$

$$2013 - 11$$

$$\Rightarrow 2002$$

Rem	After	Before
1	$\rightarrow +6 \text{ yrs}$	$- 11 \text{ yrs}$
2	$\rightarrow +11 \text{ yrs}$	$- 11 \text{ yrs}$
3	$\rightarrow +11 \text{ yrs}$	$- 6 \text{ yrs}$
0	$\rightarrow +28 \text{ yr}$	$- 28 \text{ yrs}$

### CREATE U Aptitude (in Telugu)

#### Calendars

15<sup>th</sup> August 1947  $\rightarrow$  Friday

26<sup>th</sup> Jan 1950  $\rightarrow$  Thursday

2<sup>nd</sup> Oct 1869  $\rightarrow$  Saturday

Date + Month code + Century code + Years + Leap Years

7

$\Rightarrow$  Remainder  $\rightarrow$  1  $\rightarrow$  Sun

2  $\rightarrow$  Mon

3  $\rightarrow$  Tue

4  $\rightarrow$  Wed

5  $\rightarrow$  Thu

6  $\rightarrow$  Fri

0  $\rightarrow$  Sat

Ans (code)



# CREATE U Aptitude (in Telugu)

12  
↓  
Month codes

Jan	1
Feb	4
Mar	4
Apr	0
May	2
June	5

July	0
Aug	3
Sept	6
Oct	1
Nov	4
Dec	6

## Calendars

### Century Codes

1600-1699	→ 6
1700-1799	→ 4
1800-1899	→ 2
1900-1999	→ 0
2000-2099	→ 6
2100-2199	→ 4
2200-2299	→ 2
2300-2399	→ 0

15 Aug 1947

$$D + M + C + Y + LY$$

$$15 + 8 + 9 + 47 + 11$$

$$1 + 8 + 5 + 4$$

⇒ 6 → Friday

26 Jan 1950

$$D + M + C + Y + LY$$

$$26 + 1 + 9 + 50 + 12$$

$$8 + 1 + 1 + 5$$

⇒ 5 → Thursday

21 Feb 2024

$$D + M + C + Y + LY$$

$$21 + 4 + 6 + 24 + 5$$

Jan 2 Feb 29 (incl 29)

- 1

29 Feb 1960

$$D + MC + CC + Y + LY$$

$$29 + 4 + 0 + 60 + 14$$

$$1 + 4 + 4 + 0$$

$$\Rightarrow 9 \Rightarrow 2 = \text{Mon}$$

$$4) 60 (15 - 1$$

$$\quad 60$$

$$\quad \underline{60}$$

$$\quad \quad \Rightarrow 14$$

CREATE U Aptitude (in Telugu)

Calendars

12  
↓  
Month codes

Jan	1
Feb	4
Mar	4
Apr	0
May	2
June	5

July	0
Aug	3
Sept	6
Oct	1
Nov	4
Dec	6

Century Codes

1600 - 1699 → 6

1700 - 1799 → 4

1800 - 1899 → 2

1900 - 1999 → 0

2000 - 2099 → 6

2100 - 2199 → 4

2200 - 2299 → 2

2300 - 2399 → 0

On which dates in March 1842, Tuesdays Fall?

1st March 1842

$$D + MC + CC + Y + LY$$

$$1 + 4 + 2 + 4 + 6$$

3 → Tuesday

March 1842

1 - Tuesday

8

15

22

29

1, 8, 15, 22, 29

Ans codes → 1 - Sun ; 2 - Mon ; 3 - Tue  
 4 - Wed ; 5 - Thu ; 6 - Fri  
 0 - Saturday

On which dates in Dec  
2022, Mondays Fall?

1 Dec 2022

D + M + C + C + 1 + L

~~1~~ + ~~8~~ + 6 + ~~22~~ + 5

~~8~~ + ~~1~~ + 5

5 → Thursday

1 Dec 2022 - Thur

2 " " - Fri

3 " " - Sat

4 " " - Sun

5 Dec 2022 - Mon

5, 12, 19, 26

Mondays

chgu)

On what Dates in  
Sept 2456,  
Wednesdays Fall?

1 Sep 2456

D + M + C + Y + L

1 + ~~6~~ + 6 + ~~5~~ + ~~4~~

6 → Friday

1 Sep 2456 - Fri

2 " " - Sat

3 " " → Sun

4 " " → Mon

5 " " → Tue

6 Sep 2456 - Wed

6, 13, 20, 27