- Find the number nearest to the number 9085345 which must be added to 465 to make the sum exactly divisible by 989.
 - near 9085345. Idea

989 9085345 -> 9085345= 989×9186+391

The nearest multiples of 989 one (to 9085345)

989×9185 989×9184 9187

-> K = 9185, 9186, 9187 (possible values of K) 90853 45

let's find X, when K= 9185, X= 9083500

X, when K=9186, X = 9084489

X when K = 9187, X = 9085478

when K=9187, X=9085478, So we get X+465=9085943

2.

$$2 = 1^2 + 1^2$$

$$\lambda = 29^2 + 866^2 = 750797$$

3. Tuesday > Jan 1st -> 1st date of the great

1st October -> Jun 1st -> Tuesday | 7/8-!

Jan 8th -> Tuesday | 7/8-!

No of days in January = 31

Feb = 28

March = 31

April = 36

Nay = 21

June = 38

July = 31

We have to find the number of days between Jan 1st and Oct 4St -> 274

> 3 | +28 + 3 | + 30 + 3 | + 30 + 3 | + 3 0 + 4 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3 0 + 3 | + 3

So the number of days between Jan^{11} and Oct 1st = 274 - I = 273

273 = 7×39,

So out 1st was Turdday.

Forom the above part

$$\supset If D=5$$
, then $C=2$ $\supset C|D$ if $D=5$, $C=2$ but Z/XS .

$$D=6$$
 | $6 \times 3 = 18$
 $C=3$ | $SE=8$.

$$4ms : -6 | 36, 18$$
 $2, 1$
 $2, 1$