Today's Conteur:

$$\frac{10\% \, 4 = 2}{13\% \, 5 = 3} = \frac{4 * 410\% \, 7}{5} \, 1 \, r = 80 \, r = 10, \, r = 2$$

Consuprially

$$-60 \%, 9 = -60 - 69 \%$$

$$-60 - 6 - 63$$

$$-60 - 6 - 63$$

$$-60 + 63 = 3$$

As per your language:

Modular Arthemetic

$$a = 6, b = 13, M = 7$$

$$(19) \%, 7$$

$$\frac{6 \%, 7}{6} + \frac{13\%, 7}{6} \%, 7$$

$$\frac{6}{12} \%, 7$$

$$a = 4, b = 5, P = 6 = \begin{cases} 4\%, 6 + 5\%, 6 \frac{3}{5}\%, 6 \\ 4 + 5)\%, 6 = 3 \end{cases}$$

Problem:

power (Pnt a, Pnt n, ent p) { any, p Even if no-averflow code fails Pnr ans=1 for (Pot 9=1; Pd=N; Pto) { run a % p

1/9 Ran a, n, p = 4			
	Î	ans	
	ļ	az	
	2 =	92	
•	J	a ²	
	4	92	

long power (fint a, fint n) int p) { and p d long
$$\Rightarrow$$
 d $=$ 8 * 10 1 } long ans = 1

for (fint $f = 1$; $f = N$; $f = 0$) {

ans = (ans * a) % p

ans = (ans * p * a * p) % p

for the ans = $f = 1$ and $f = 1$

$$1 \times 2 \times 4 = 10^{5}$$

$$1 \times 2 \times 4 = 10^{9}$$

$$|A = AA = 10^7$$
 $|A = AA = 10^7$
 $|A = 10^7$

$$|A = Nx = 10^{5}$$

$$|A = Ax = 10^{9}$$

$$|A = Ax = 1$$

ga * by %p = (a %p * b %p) %p

Thy run:
$$\sqrt{a}$$
, $\sqrt{n} = 5$, \sqrt{p} , $\sqrt{n} = 13$ (a%, $\sqrt{p} \times a$)% of

| \sqrt{a} and $\sqrt{n} = (\sqrt{n} \times a)$ %, \sqrt{p} and
| \sqrt{a} and $\sqrt{n} = (\sqrt{n} \times a)$ %, \sqrt{p} and
| \sqrt{a} and $\sqrt{n} = (\sqrt{n} \times a)$ %, \sqrt{p} and
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| \sqrt{a} and $\sqrt{n} = (\sqrt{n} \times a)$ %, \sqrt{p} and
| \sqrt{a} and $\sqrt{n} = (\sqrt{n} \times a)$ %, \sqrt{p} and \sqrt{n} and

Divisibily run of 3: Sum of degret are denothing 3?
$$= (789)\%.3 (8215)\%.3 (3458)\%.3=$$

$$10\%.3 7 17 (14.50) 3710 4710 5110 6110$$

$$|0\%3 \Rightarrow | (3 \%8) = 3*10^{3} + 4*10^{2} 5*10^{1} 8*10^{0}$$

$$|0^{2}\%3 \Rightarrow | (3 \%8) = (3*10^{3} + 4*10^{2} 5*10^{1} 8*10^{0})$$

$$|0^{3}\%3 \Rightarrow | (3 \%8) = (3*10^{3} + 4*10^{2} 5*10^{1} 8*10^{0})$$

$$|0^{3}\%3 \Rightarrow | (3 \%8) = (3*10^{3} + 4*10^{2} 5*10^{1} 8*10^{0})$$

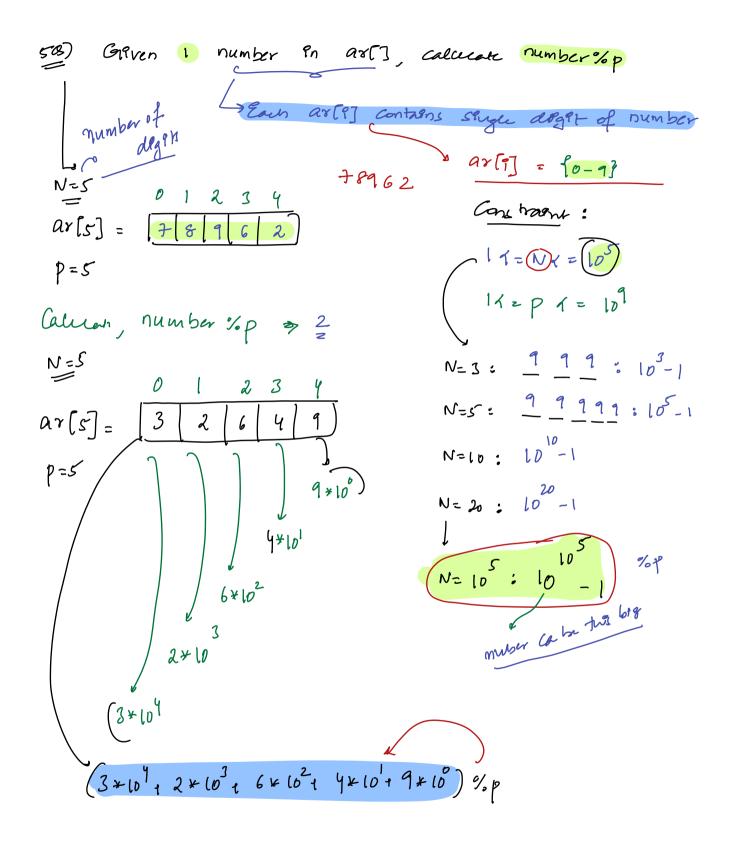
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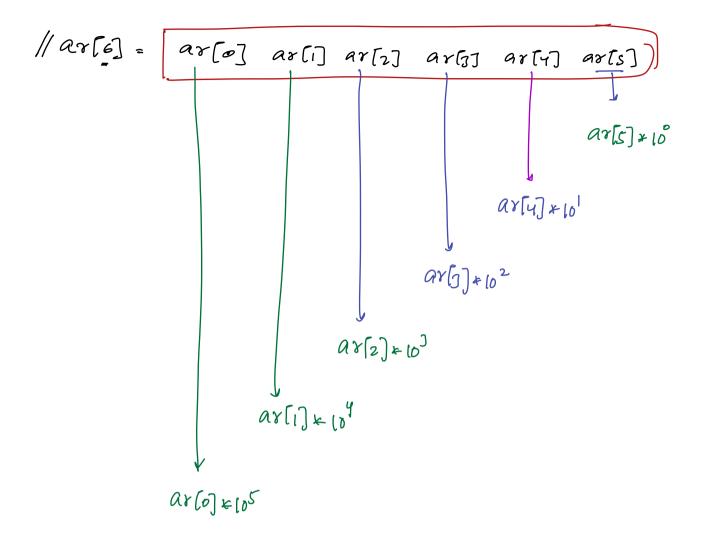
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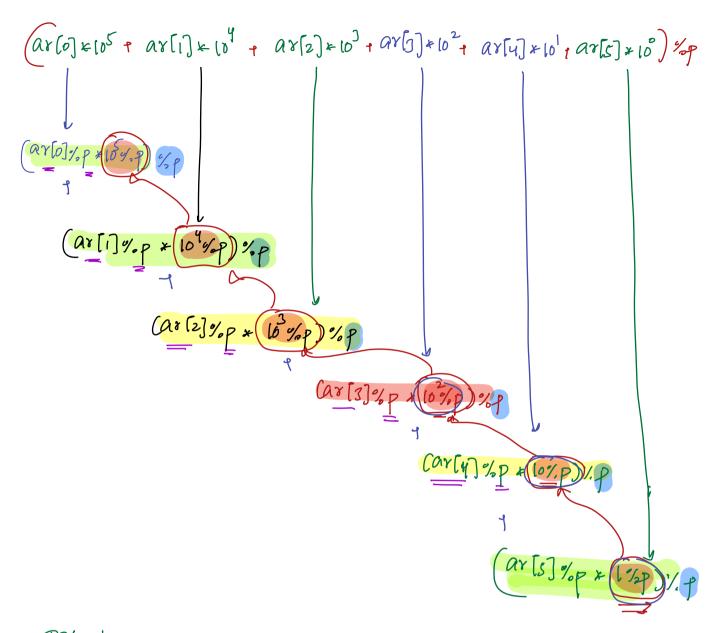
$$= \{(3 * 10^{3}) \% 3 + (4 * 10^{2}) \% 3 + (5 * 10^{2}) \% 3 + (8 * 10^{2}) \% 3\} \% 3$$

$$\begin{cases} 10\%.9 = 1 \\ 10^{2}\%.9 = 1 \\ 10^{3}\%.9 = 1 \\ 10^{n}\%.9 = 1 \end{cases}$$





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$$ans = (1 * 10) % p = 10% p$$
 $ans = (1 * 10) % p = 10% p$
 $ans = (ans * 10) % p = (10^2) % p$
 $ans = (ans * 10) % p = (10^3) % p$

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Psnav Code:
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```
// gara ar [N] q p

long fans = 0

lang ans = 1

fans = fans + { (ar[i] %p) * (ans 4.p) } %p

fans = fans %p

ans = (ans * 10) %p

return fans;
```