

"Hello Everyone!"

Problem Solving

① Factorial →

② Nested loops → Concept

③ Count factors →

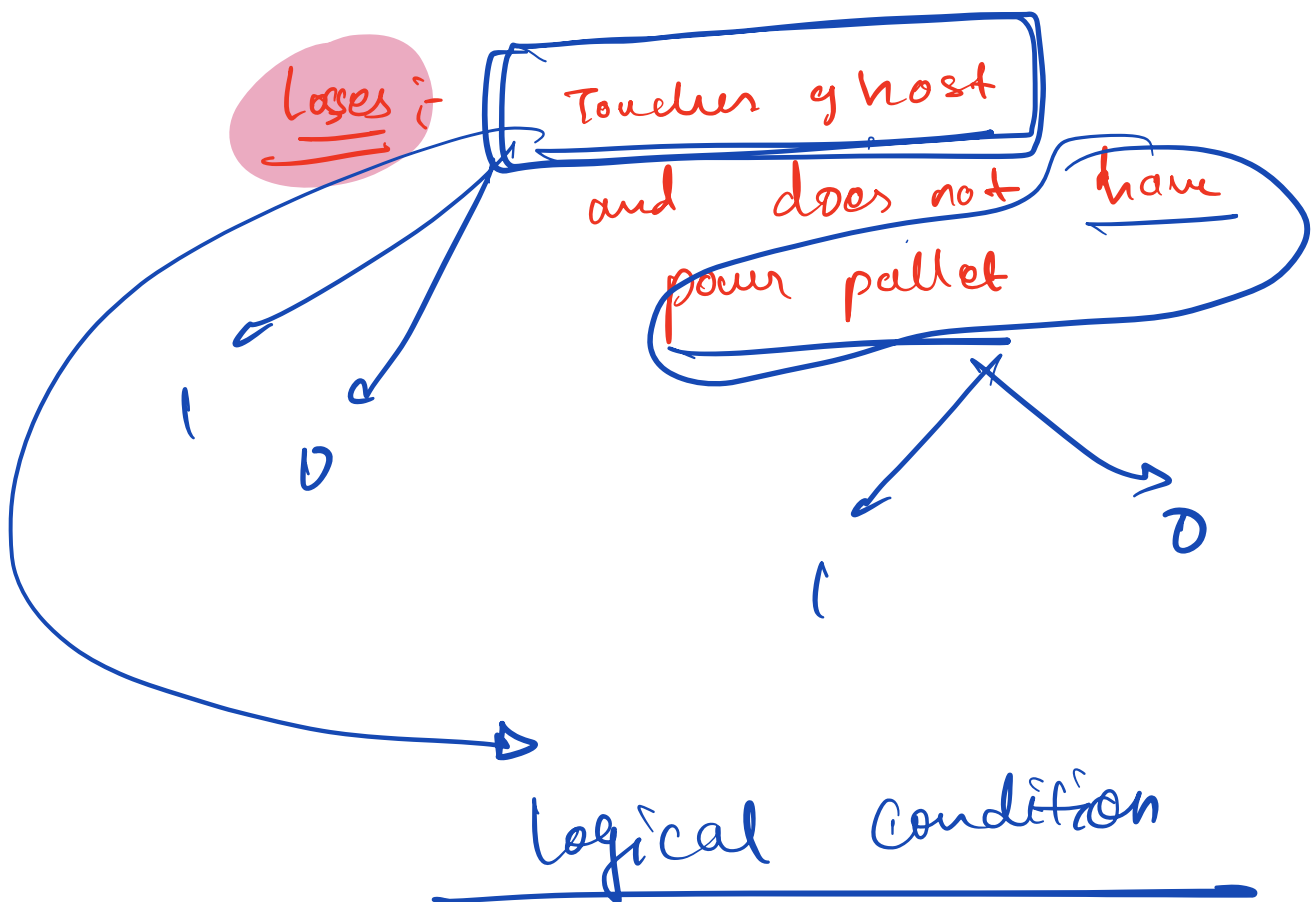
④ pac - man
↳ for-loop (Q1)

① Pal - man

① Power pallet ?

② Touching a ghost ?

1 → Yes
0 → No

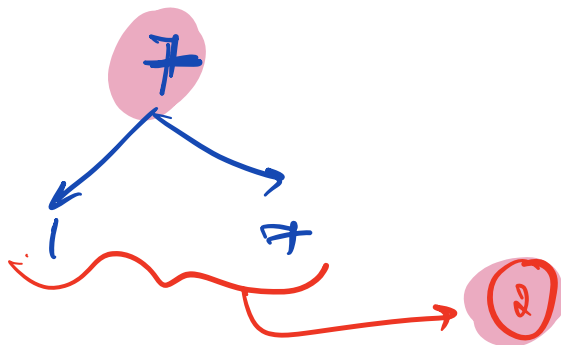
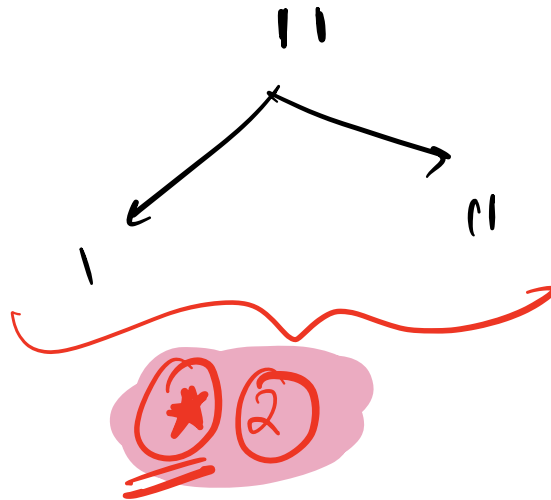
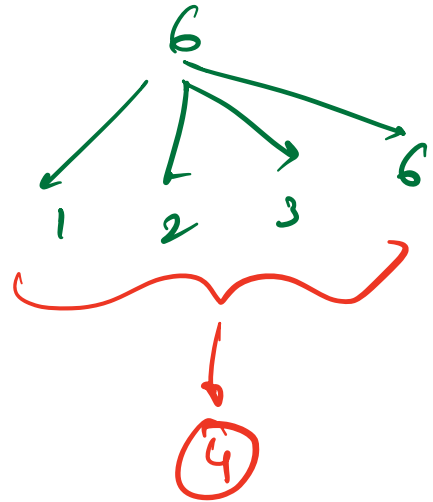
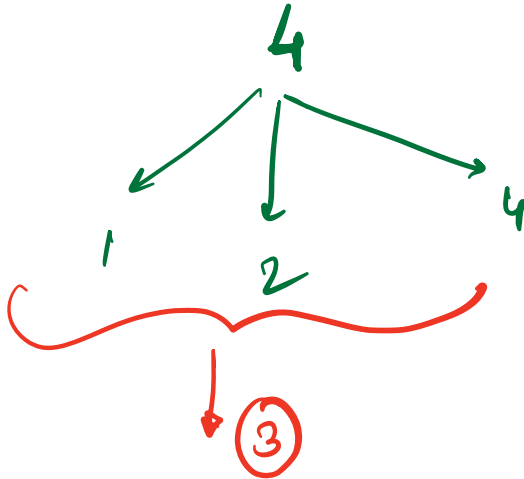


(TG) and (not PP)

→ Tone
→ '1'

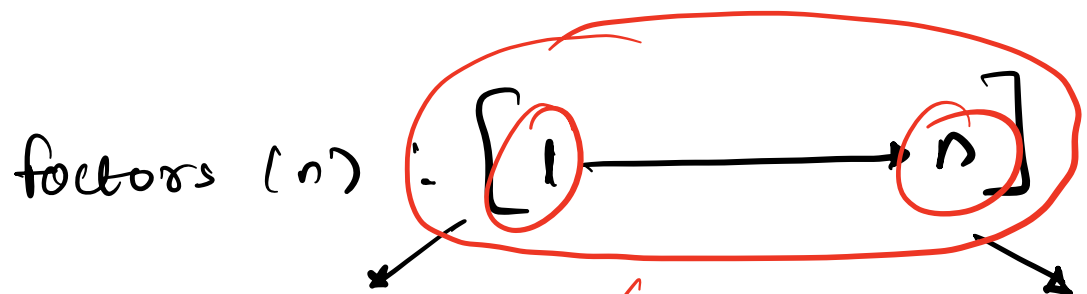
cha
→ 0

* factors



1 \longrightarrow always

n \longrightarrow always



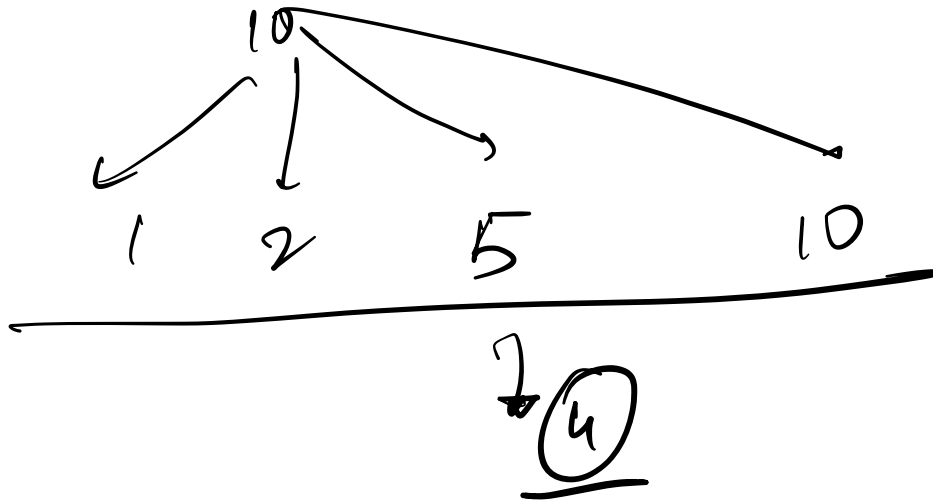
count = 0

for i in range(1, n+1)

if $n \% i == 0$ \rightarrow count = count + 1

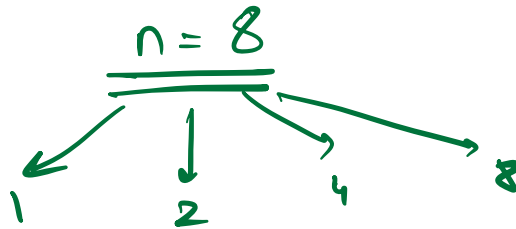
count = 1

i divides n completely
i is a factor of n
i is "divisor"



Dry Run :

$n=8$



count = 0

for i in range (1, $n+1$):

if $n \% i == 0$:

count += 1

1 → 8

i: 1 2 3 4 5 6 7 8

$8 \% 1$

0 ?

Count += 1

$8 \% 2$

0 ?

②

$8 \% 3$

0 ?

✓

$C = C + 1$

$= 2 + 1 = 3$

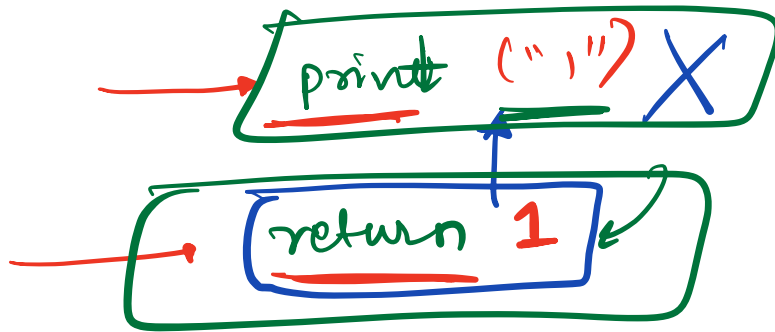
$Count = Count + 1$

$= 1 + 1$

Count = ~~0~~ ~~1~~ ~~2~~ ③ ...

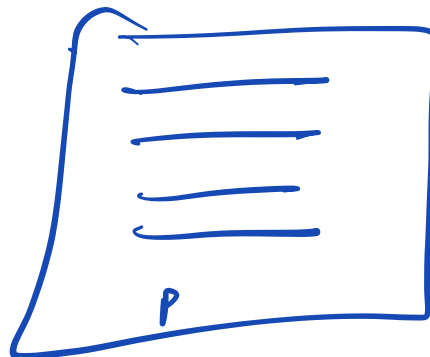
$= 2$

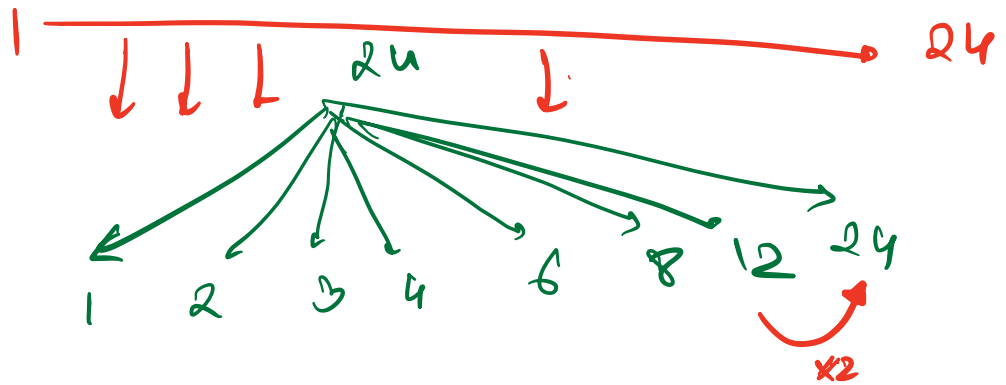
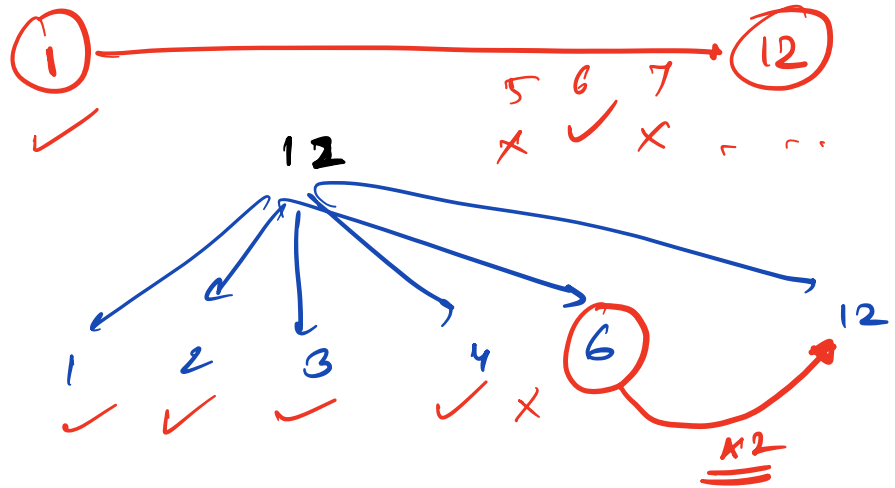
function



return ans

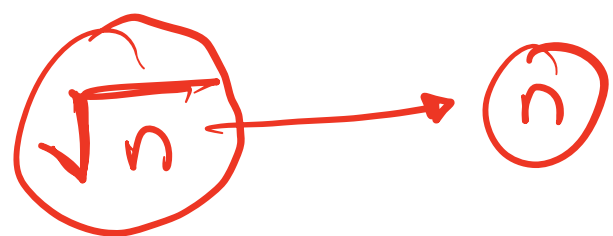
`solve ()`





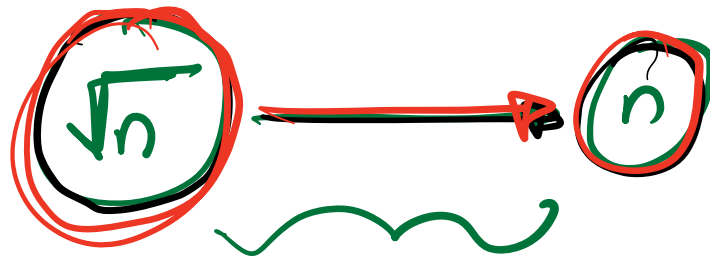
24

★ 100,000000

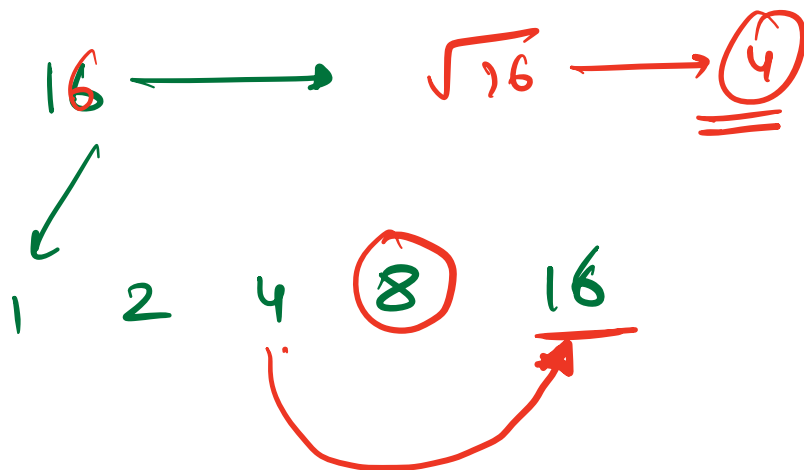


Imp

factors



H.W. \rightarrow explore why we
only check till
 \sqrt{n}



10:12 sharp

→ 84: Operators
↳ String Concatenation
↓
After List

factorial

factorial 3 \rightarrow $3 \times 2 \times 1$?
 \rightarrow $1 \times 2 \times 3$

factorial $n \rightarrow i \times (n-1) * (n-2) \dots 1$

ans
so far

i in $(n, 0 - 1)$

count += 1

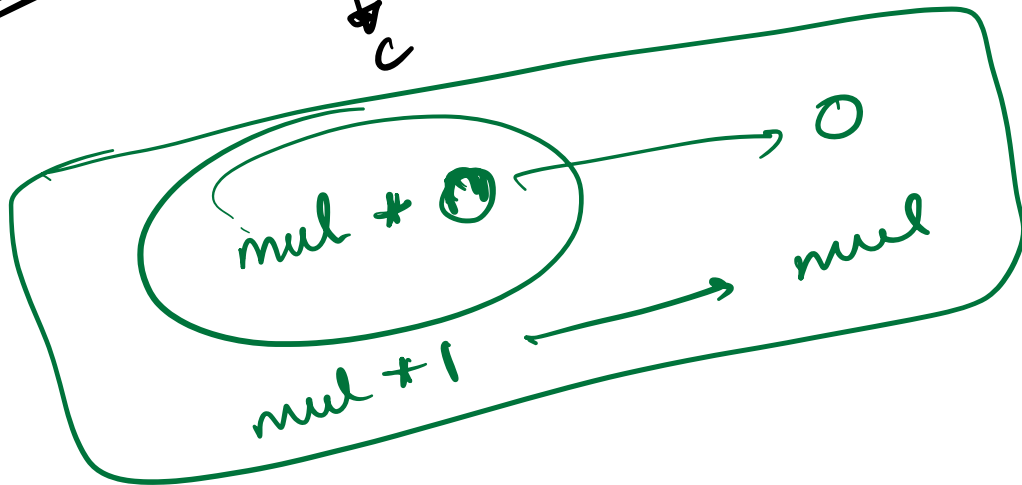
$\downarrow +1 \downarrow +1 \downarrow +1$

$$n * (n-1) * (n-2) * (n-3)$$

initial = 0

depends on the use-case

sum → $\boxed{0} + c$
 \downarrow
 c



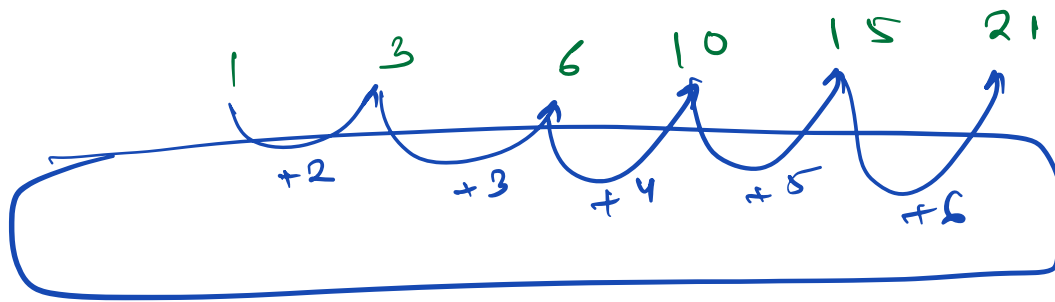
Prime

↳ exactly 2 distinct factors

1 and itself

Cont → # factors

② → P
→ Not a P

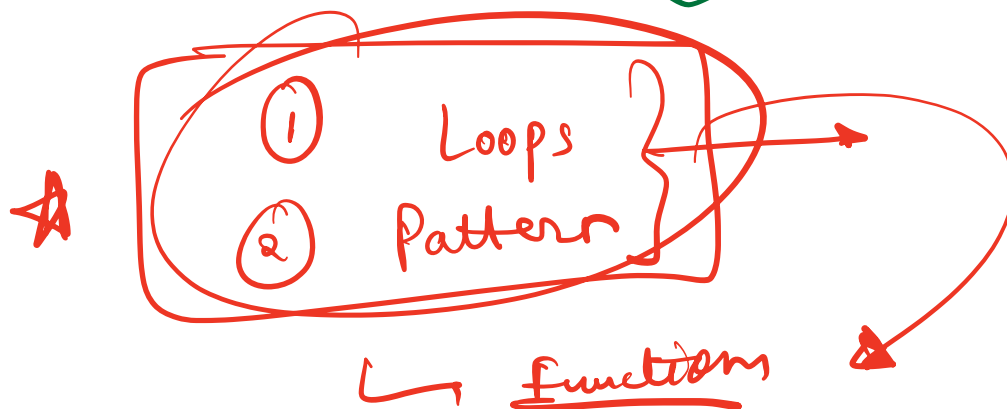
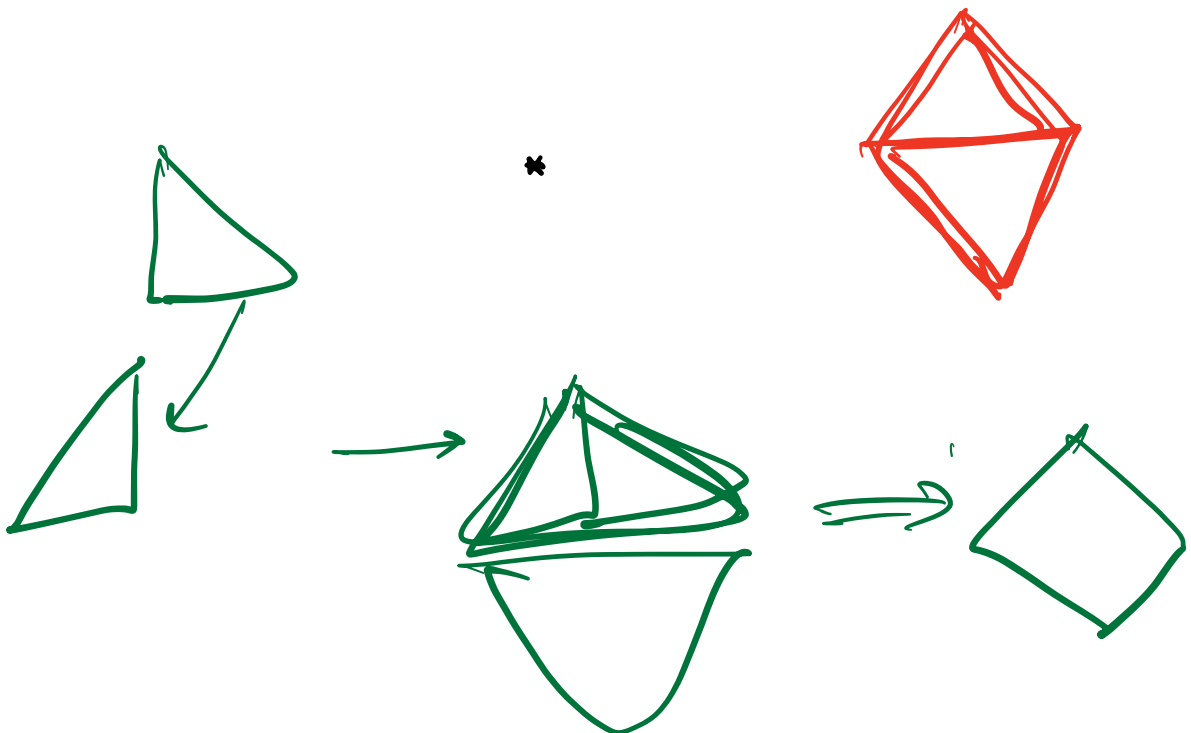


h.w \rightarrow PS-2 \rightarrow Q1

Pattern Printing



7 1 5



Sunday EOD