

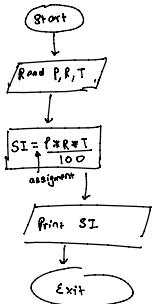
Flowchart

12 September 2021 12:09

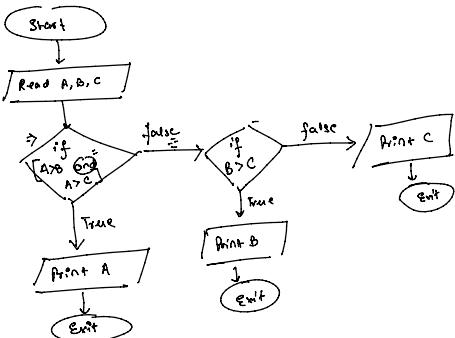
↳ Components of a flowchart

1. ← start/end
2. ← read/write
3. ← processing
4. ← conditional logic
5. ← connector
6. ↴↑

1. Simple Interest

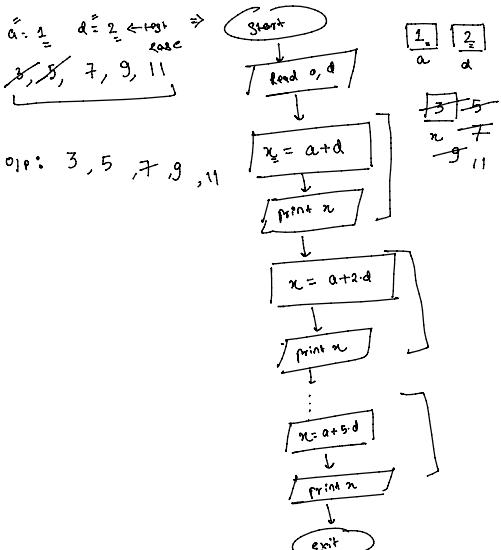


2. find largest of 3 nos.



3. a, d

$a+d, a+2d, a+3d, a+4d, a+5d$



$$a + 1 \cdot d$$

$$a + 2 \cdot d$$

$$a + 3 \cdot d$$

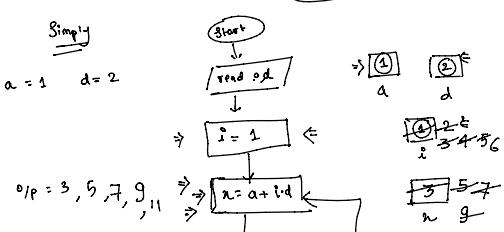
:

$$a + 5 \cdot d$$

$$x = a + i \cdot d$$

$$1 \leq i \leq 5 \in$$

Simple
 $a = 1$ $d = 2$



$$\Rightarrow [4] \quad a \quad [2] \in$$

\Leftarrow

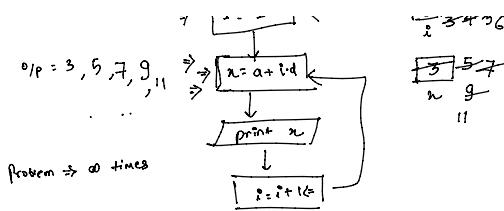
$$\Rightarrow [i = 1] \Leftarrow$$

\Leftarrow

$$\Rightarrow [x = a + i \cdot d] \Leftarrow$$

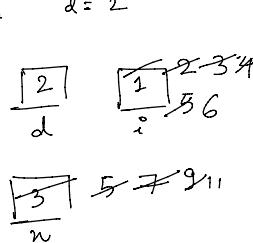
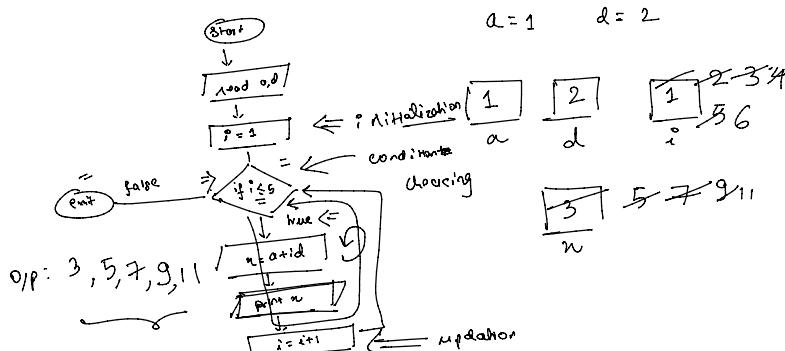
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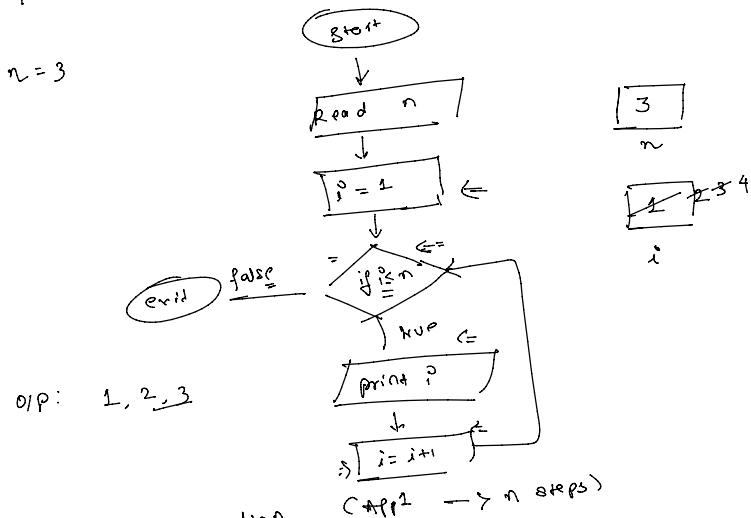
$i = 3426$

$n = 11$



1. Initialization X
2. Condition check X
3. Body (optional)
4. update X

4. Print nos from 1 to n

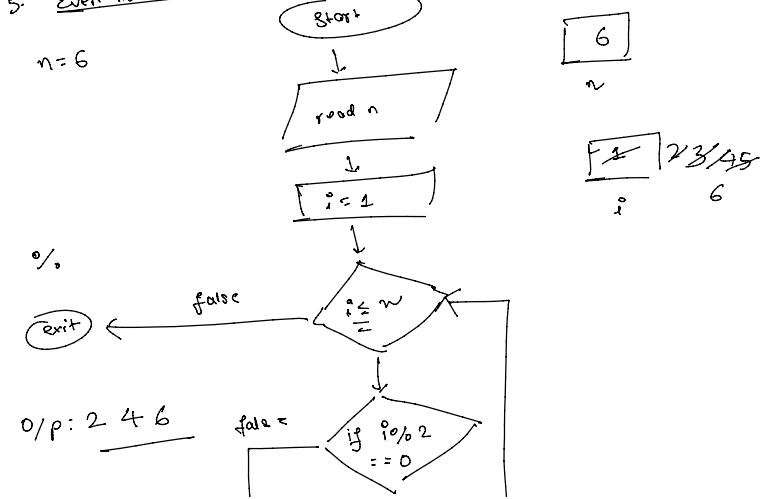


$i = 3$

$i = 1 - 2 - 3 - 4$

i

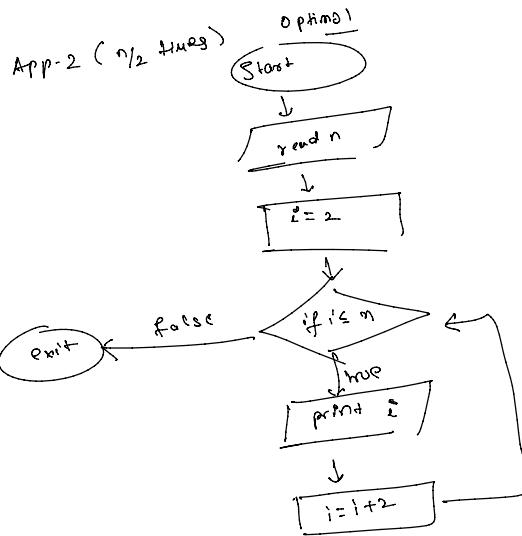
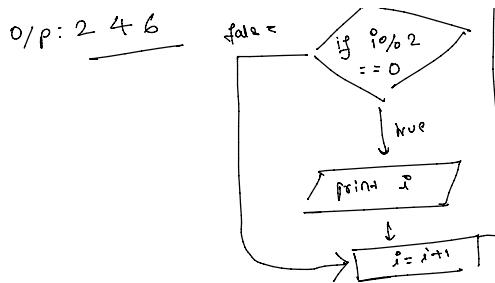
5. Even nos from 1 to n



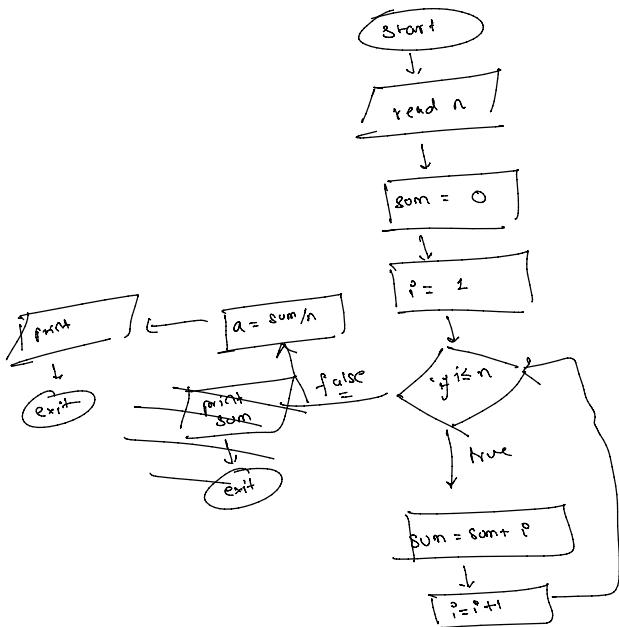
$i = 6$

$i = 2 - 4 - 6 - 8 - 10 - 12$

6

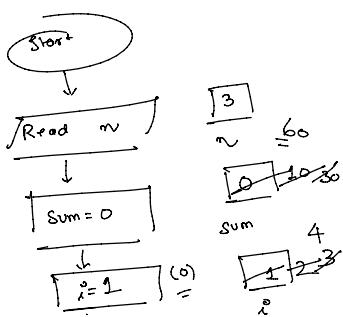


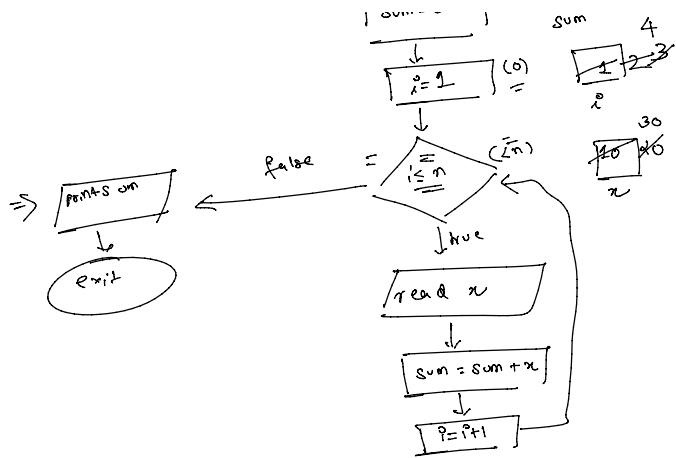
6. Given a no. n , calculate the sum of nos. from 1 to n .



↳ Reading n values and calculating the sum

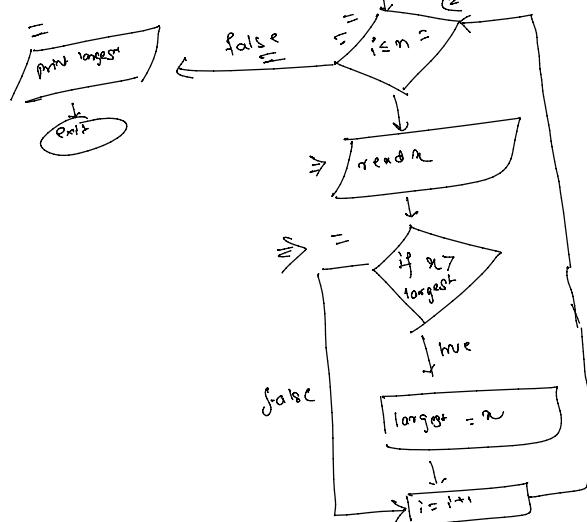
$$n = 3 \quad [10, 20, 30]$$





→ Read n nos. and find the largest of n nos.

$n = 5$
 $\boxed{7} \boxed{2} \boxed{3} \boxed{0} \boxed{3}$



5
 n

$\boxed{7} \boxed{2} \boxed{9} \boxed{0} \boxed{3}$
 $= i=1$

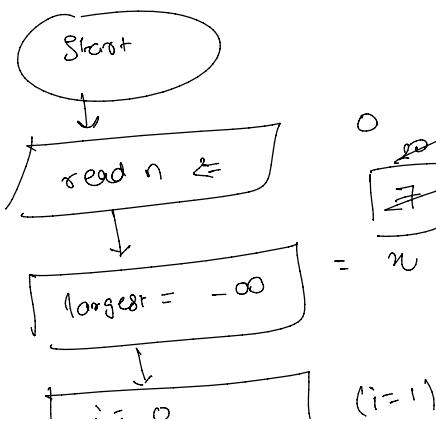
$\leq n \Rightarrow n-1$
 $\leq n-1 \Rightarrow n-1$
 \dots
 $\leq n \Rightarrow n-1$

$\boxed{7} \boxed{9}$
 $= i=0$
 $longest$
 $\leq n-1$
 $\leq n-2$

$\boxed{2} \rightarrow 3 \boxed{4} \boxed{5} \boxed{6}$
 x^0

$n = 3$

$\boxed{7} \boxed{20} \boxed{0}$



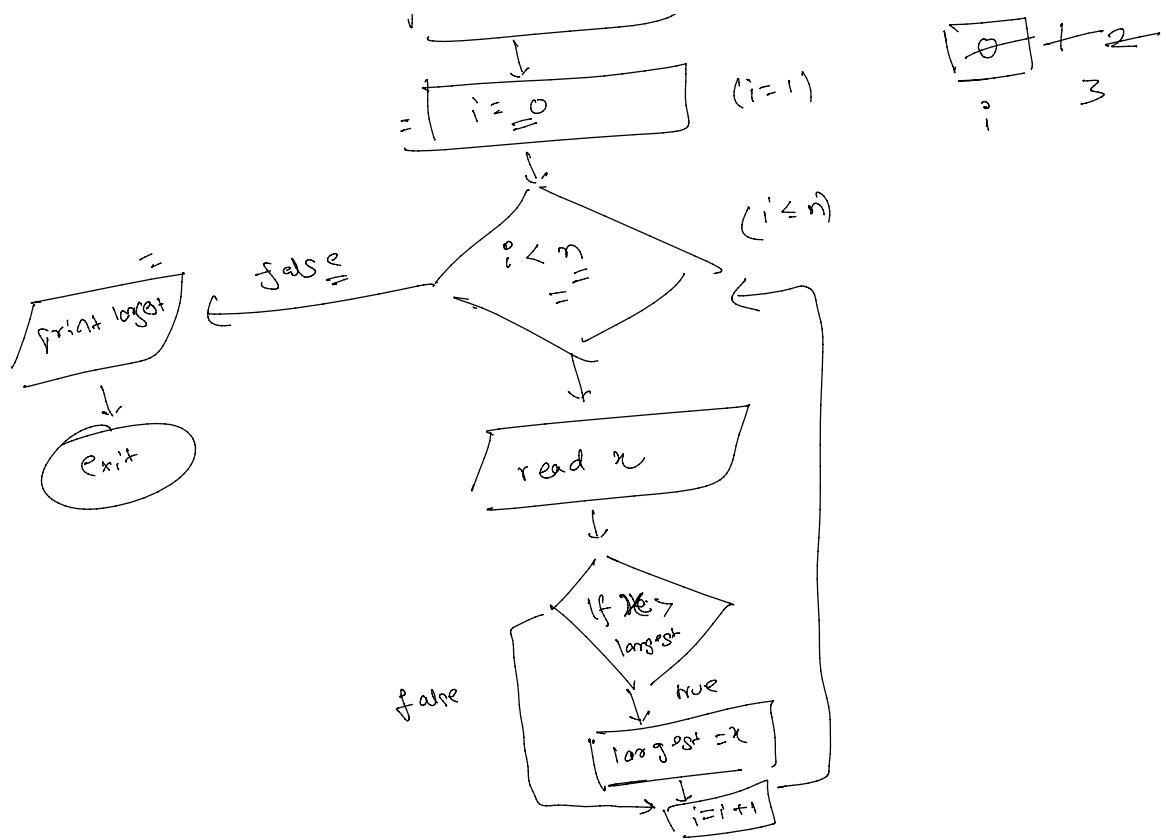
0
 n

3

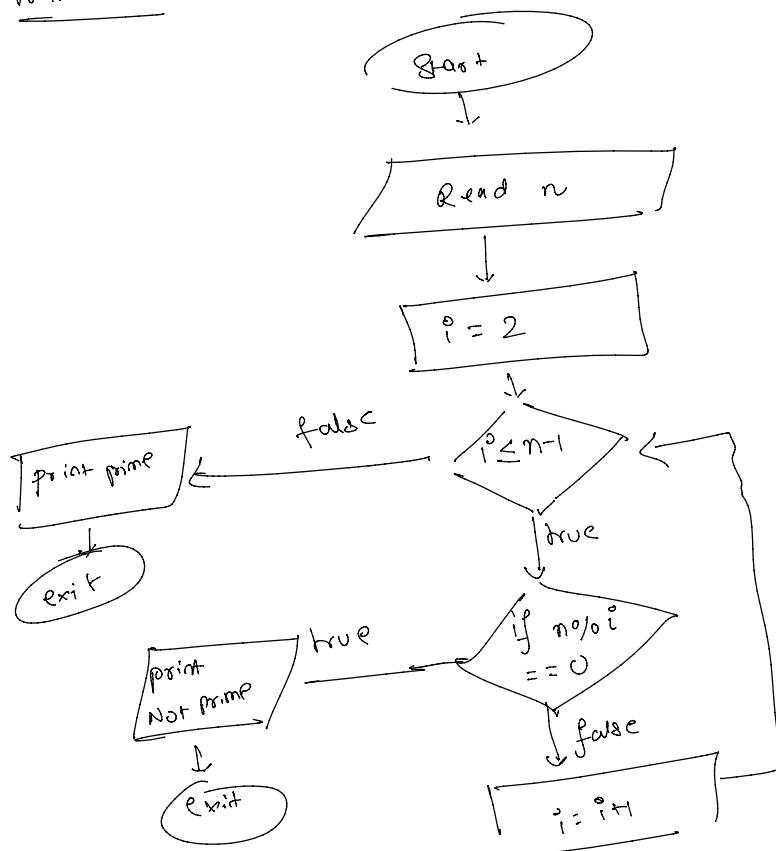
$\boxed{7}$
 $= n$

$\boxed{-20} \rightarrow \cancel{7}$
 $= 20$
 $longest$

$\boxed{0} + 2$
 $= 3$



\hookrightarrow Prime no.



Pseudo Code

end while

三

good n

$$1 \leftarrow 2 \quad \begin{matrix} 5 \\ 4 \end{matrix}$$

while $\frac{0}{1} \leq \frac{n-1}{5}$

\Rightarrow if $(n^{\circ}/o) = 0$ then
 $n^{\circ}/o \neq 0$ is not

else then
exit

else then
 $\rightarrow = \underline{\underline{i+1}}$
endif

Endnote

$$n=5$$

5 4

3

$$\cancel{2} \quad 3 \rightarrow 4 \quad 5$$

6

\Rightarrow print $n =$ is a prime
exit

$$\eta = 4$$

now | * * *

for each row

1133

卷之三

print n '*'

8

2

7 x 9

7 x 9

↓ 1

row 4 * * * $n \times n$
 \Rightarrow read n
 $\Rightarrow i \leftarrow 1$
 \Rightarrow while $i \leq n$ do
 [point n *]
 $i \leftarrow i + 1$
 \Rightarrow endwhile
 j ← 1
 while $j \leq n$ do
 print *
 $j \leftarrow j + 1$
 endwhile

read n

$i \leftarrow 1$

$\Rightarrow \text{while } i \leq n \text{ do}$

$j \leftarrow 1$

$\Rightarrow \text{while } j \leq n \text{ do}$

print j

$j \leftarrow j + 1$

end while

print " "

$i \leftarrow i + 1$

end while

The diagram illustrates three configurations of a 2x2 grid:

- Top:** A 2x2 grid with a double-lined border. The top-left cell contains the number 3.
- Middle:** A 2x2 grid with a single-lined border. The top-left cell contains the number 1. To its right, the numbers 2, 3, and 4 are arranged vertically. Below the grid, the symbol j^0 is written.
- Bottom:** A 2x2 grid with a single-lined border. The top-left cell contains the number 1. To its right, the numbers 2, 3, and 4 are arranged vertically. Below the grid, the symbol j^0 is written.

