Introduction la Programmune

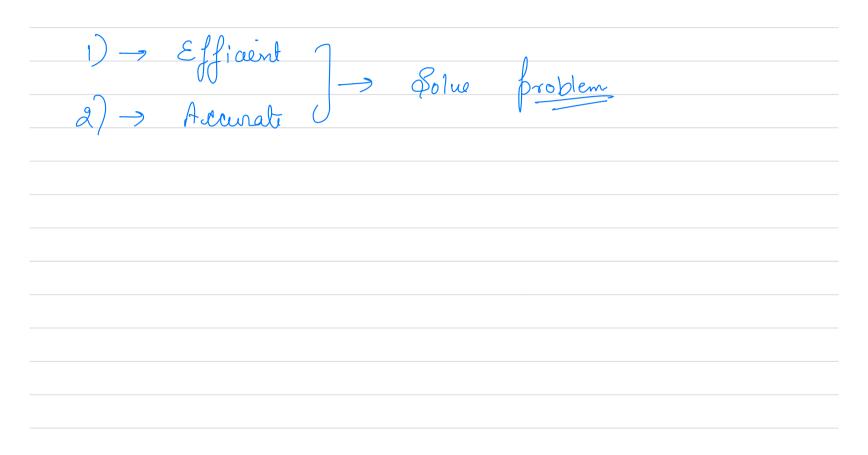
Arithmagon Problem for any gue bodyg a how lan we solve it the guier when the edge wis >

$$2 + y + 2 = 2 (v_1 + v_2 + v_3)$$

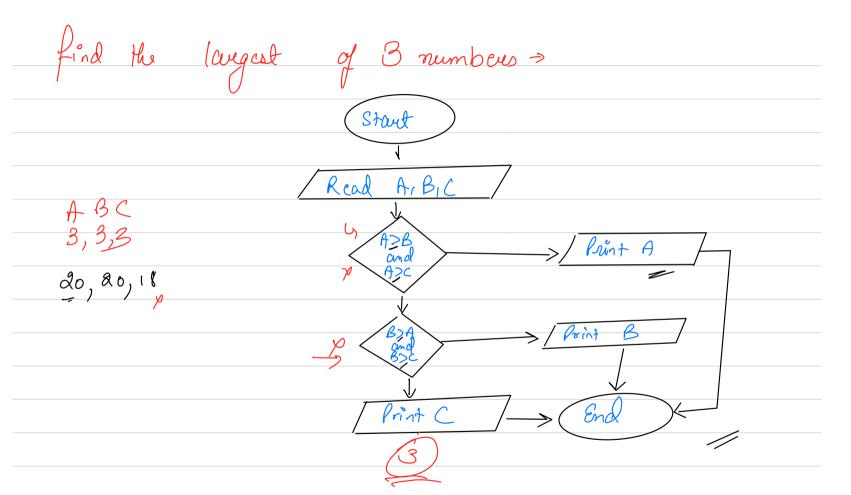
$$V_1 + v_2 - v_3 = (2 + y + 2) / 2$$

$$V_1 + V_2 + V_3 = (2+y+2)/2$$

$$\int_{0}^{1} \int_{0}^{1} \int_{0$$



flowchard for the Arithmagon problem Start input C1, C2, C3 S=(e1+(2+(5)/2 V1 = S - C2 V2 = S - C3 V3 = S - e1 ouput, V1, V2 V3/



3 problems -> largest of 3 nois, Arithmagen, Simple Interest constraint

You are gener a value N, you have to calculate the Sum of natural rois up to N where 1+2+3..... 1(N-1)+N geent for one addition - 1 operation 2 (dafna)d) 2+3

= last ren 3-4 operation $\frac{1}{2}\left(\alpha+\alpha+\alpha+\alpha+\alpha\right)$

lou are gener a 20 chartesian flane. lou want to fend the no. of points having Manhattan Distance at most 'S' from the origin.

for any 2 points on a carlesian francé Pilane (Pilany) & les Cazys) manhattan distance = $|x_1 - x_2| + |y_1 - y_2|$ al most S -[0(+)1) + [2| + [3] - - · · · | S)

3 l + 4 (1+2+3...-.s) S natural 10 at most (+ Xx / Sx (Sti)) 1 + 2(s(s+1) = 1+2(3)(4) - 2S

100 mll ka guen a number N. (N < 106). Check if it is a prime number or not ??? $\begin{array}{c} \mathcal{E}_{1} \rightarrow N = 10 \rightarrow N_{0} \\ N = 7 \rightarrow Y_{0} \end{array}$ for being a krime number, you are going to ke completely devolved by I or the yourself itself. We can start shecking from (2-N-1) that if any number deuds N.

> check if ith no. dude ~ N → operation Square root 12 × 3 18 x 2 Squausoot(N) operation $\frac{29}{2-9} \xrightarrow{\text{proind}}$ 2-9



Start Reads Ans= It 2(S)(Sti) owbut ans

