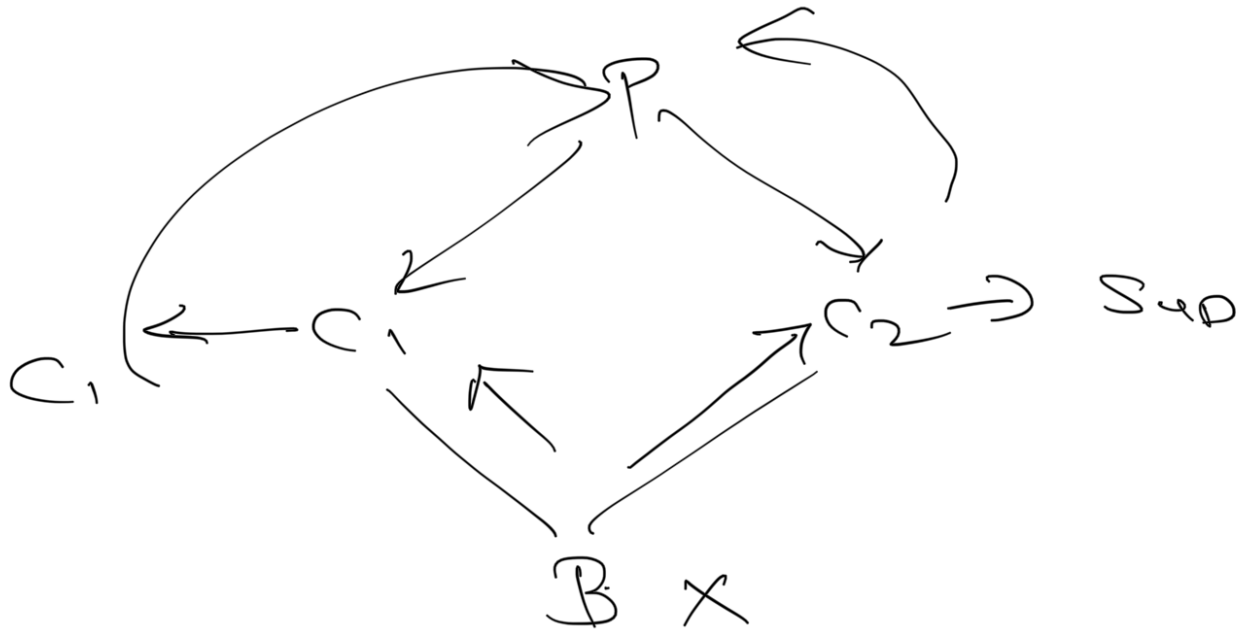


Doubt Session Tue April 8th



b. test()

Def child
super C.

$f(x)$

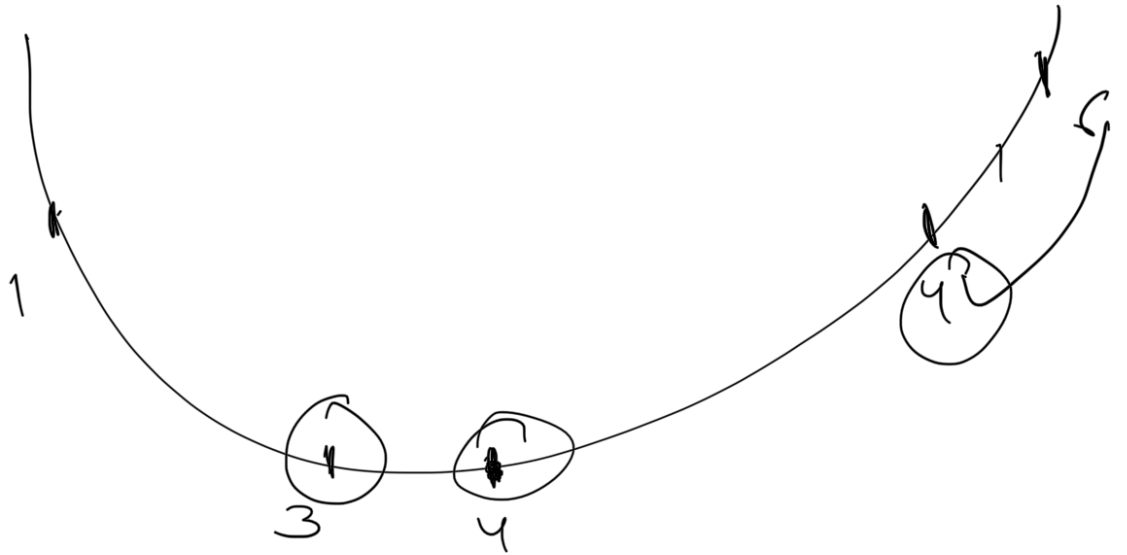
$$ax^2 + bx + c$$

Start = 1 , end 3

$x \in 1, 2, 3,$

$f(1) >$

1 4



$$2x^2 + 3x + 10$$

4, 5, 6
 min

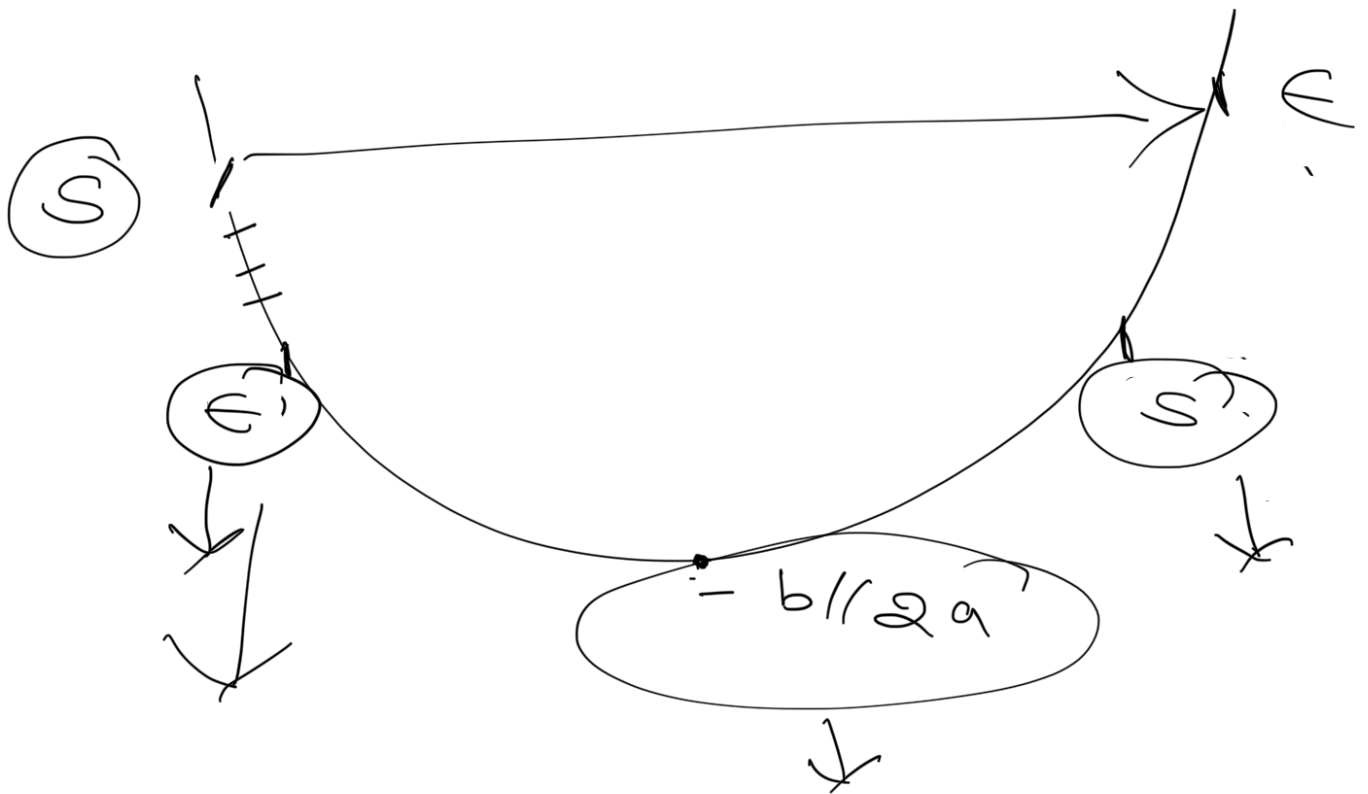
$$\begin{aligned}
 &2(4)^2 + 3 \cdot 4 + 10 \\
 &2(5)^2 + 3 \cdot 5 + 10 \\
 &2(6)^2 + 3 \cdot 6 + 10
 \end{aligned}$$

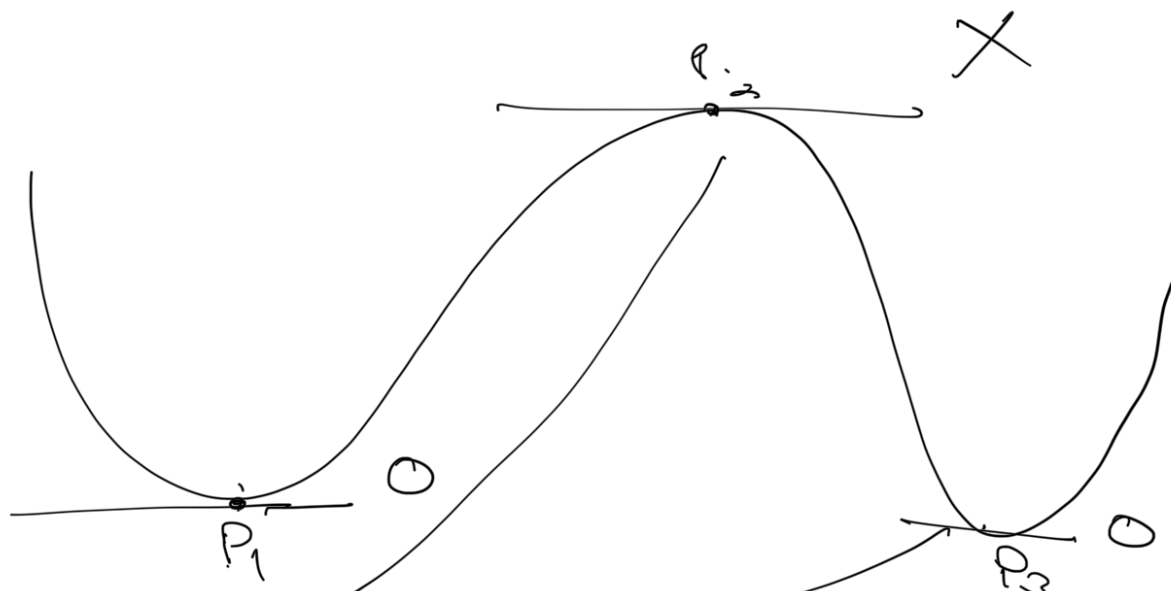
Output $\rightarrow 4$

4 6 4, 5, 6
 22 51
 $\text{curr_min} = \infty$
 $\text{min_value} = \infty$
 for i in $\text{rang}(4, 6+1)$

$$n = a(i)^2 + b(i) + c$$

if $n < \text{min_value}$
 min_value
 $\text{curr_min} = i$





$$f'(x) = 0 \Rightarrow x^3 + bx^2 + cx + d$$

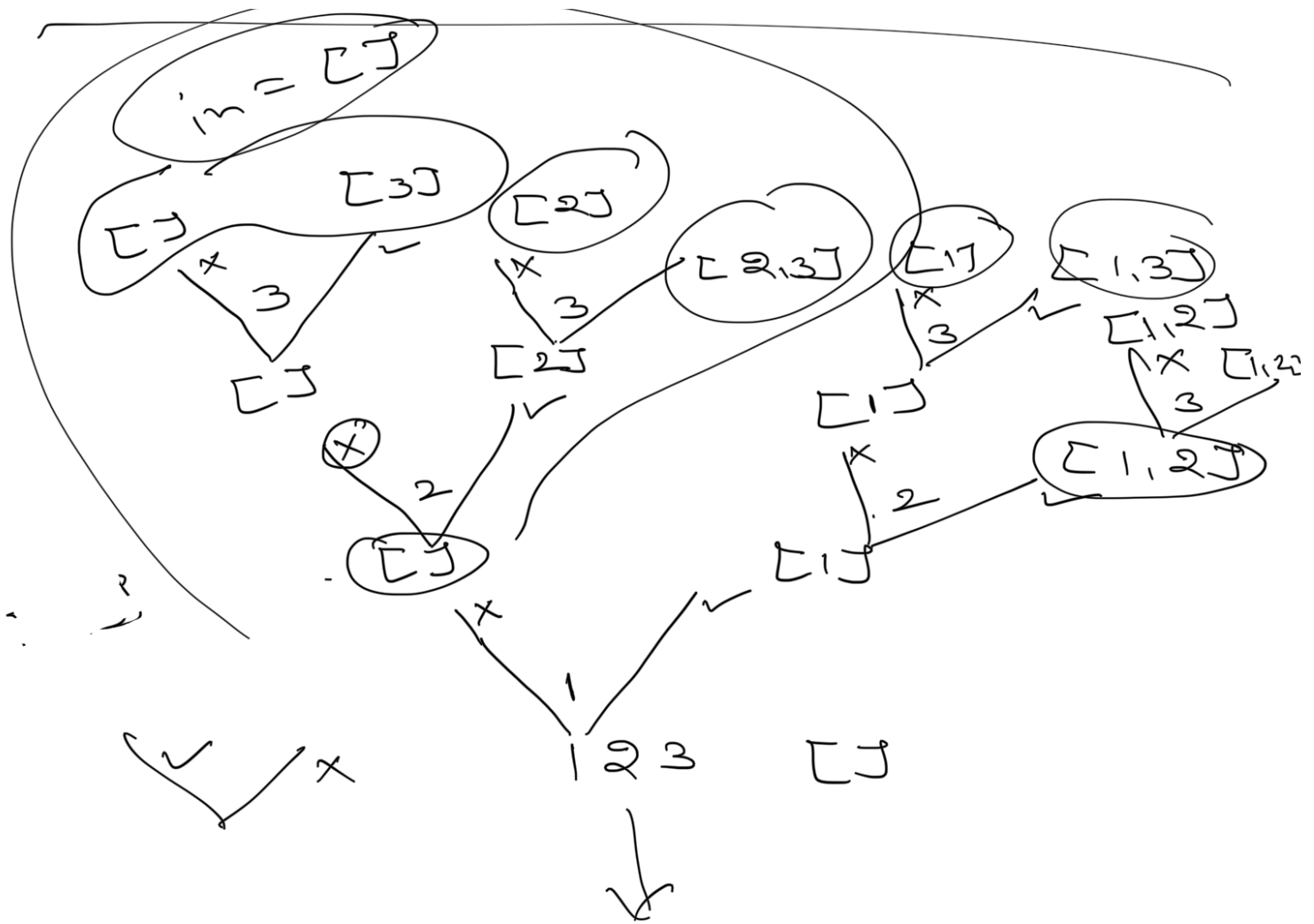
$$\Rightarrow \boxed{2ax^2 + bx + c} = 0$$

$$x < \frac{-b}{2a}$$

$$f''(x) \begin{cases} P_1 \Rightarrow \text{Positive} \\ P_2 \Rightarrow \text{Negative} \\ P_3 \Rightarrow \text{Positive} \end{cases}$$

$$\boxed{P_1, P_3}$$

$$\underline{f'(x) \Rightarrow 0}$$


$$\left[\begin{array}{l} \lceil \rceil, \lceil 3 \rceil, \lceil 2 \rceil, \lceil 2, 3 \rceil, \lceil 1 \rceil \\ \lceil 1, 3 \rceil, \lceil 1, 2 \rceil, \lceil 1, 2, 3 \rceil \end{array} \right]$$
$$[2] (3)$$

\swarrow \searrow
 $[1, 2, 3]$

$S []$ \times $[]$ Sub
 $[2, 3]$ $[2, 3] \leftarrow \text{Int}$
 $\text{in} = \text{in} [1:]$ $[1, 2, 3]$ $[]$

$[1, 2, 3]$ $[1:] \Rightarrow [2, 3]$

$[] + []$ included

$[]$

List $(4, 5)$



Reverse a Number



1 2 3

2, 3, 4, 5

$$(2^1 + 3^1 + 4^1 + 5^1)^{1/1} \Rightarrow 1^{\text{st}} \text{ row}$$

$$(2^2 + 3^2 + 4^2 + 5^2)^{1/2} \Rightarrow 2^{\text{nd}} \text{ row}$$

$$(2^3 + 3^3 + 4^3 + 5^3)^{1/3} \Rightarrow 3^{\text{rd}} \text{ row}$$