

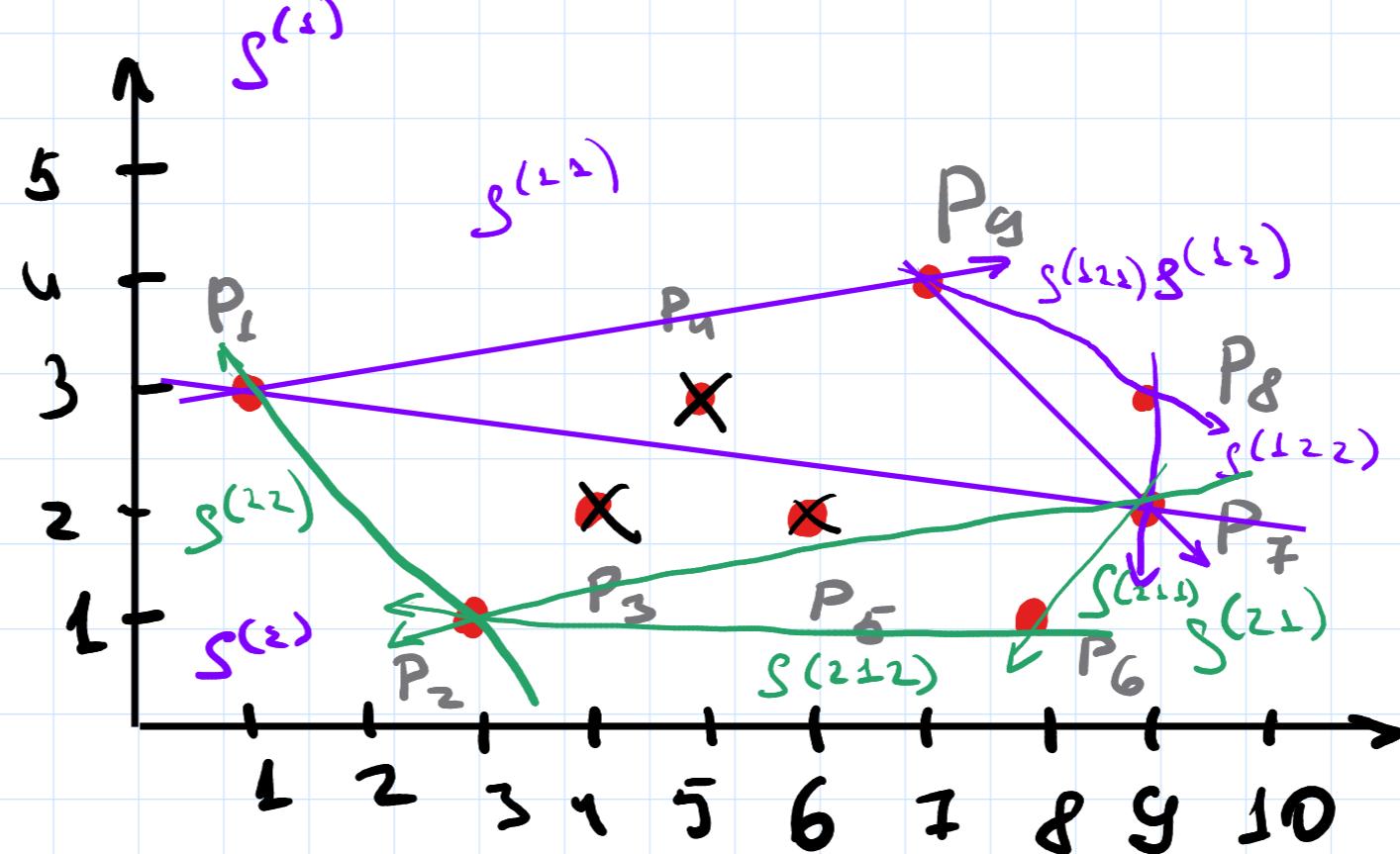
## Quickhull method

Варіант № 61

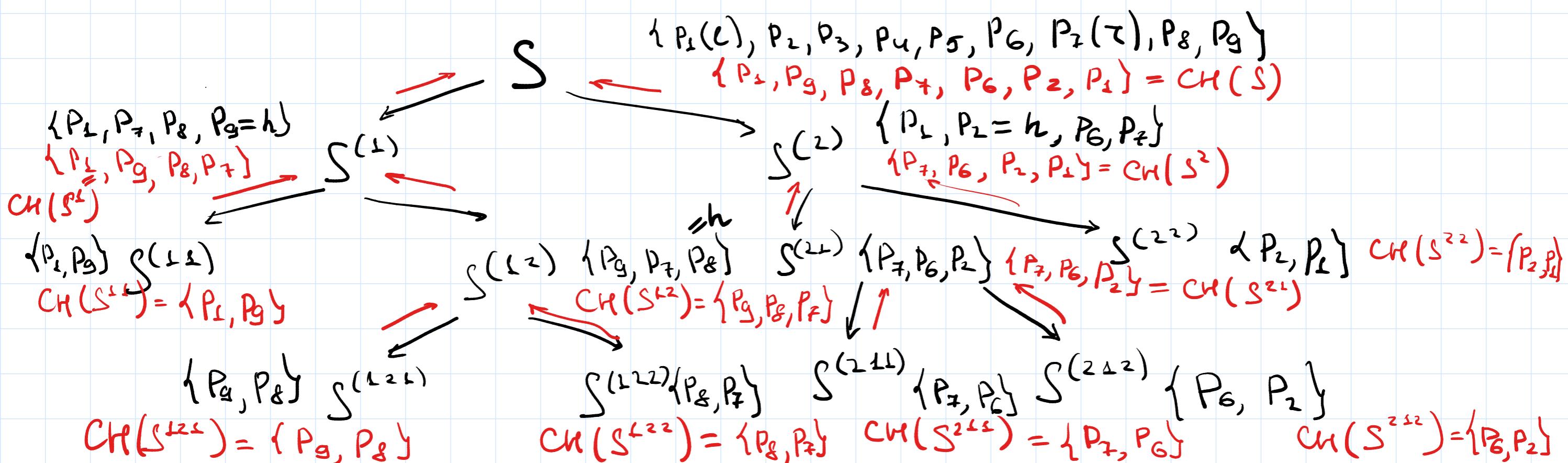
1. Задано точки:

(1;3), (3;1), (4;2), (6;2),  
 (7;4), (5;3), (8;1), (9;2),  
 (9;3)

2. Вставити точку (2;5)



$$\ell_p = P_1, \tau = P_7 \\ \min x\text{-coord} \quad \max x\text{-coord}$$



$$RES = [P_1, P_2, P_3, P_4, P_5, P_6, P_7, P_8]$$

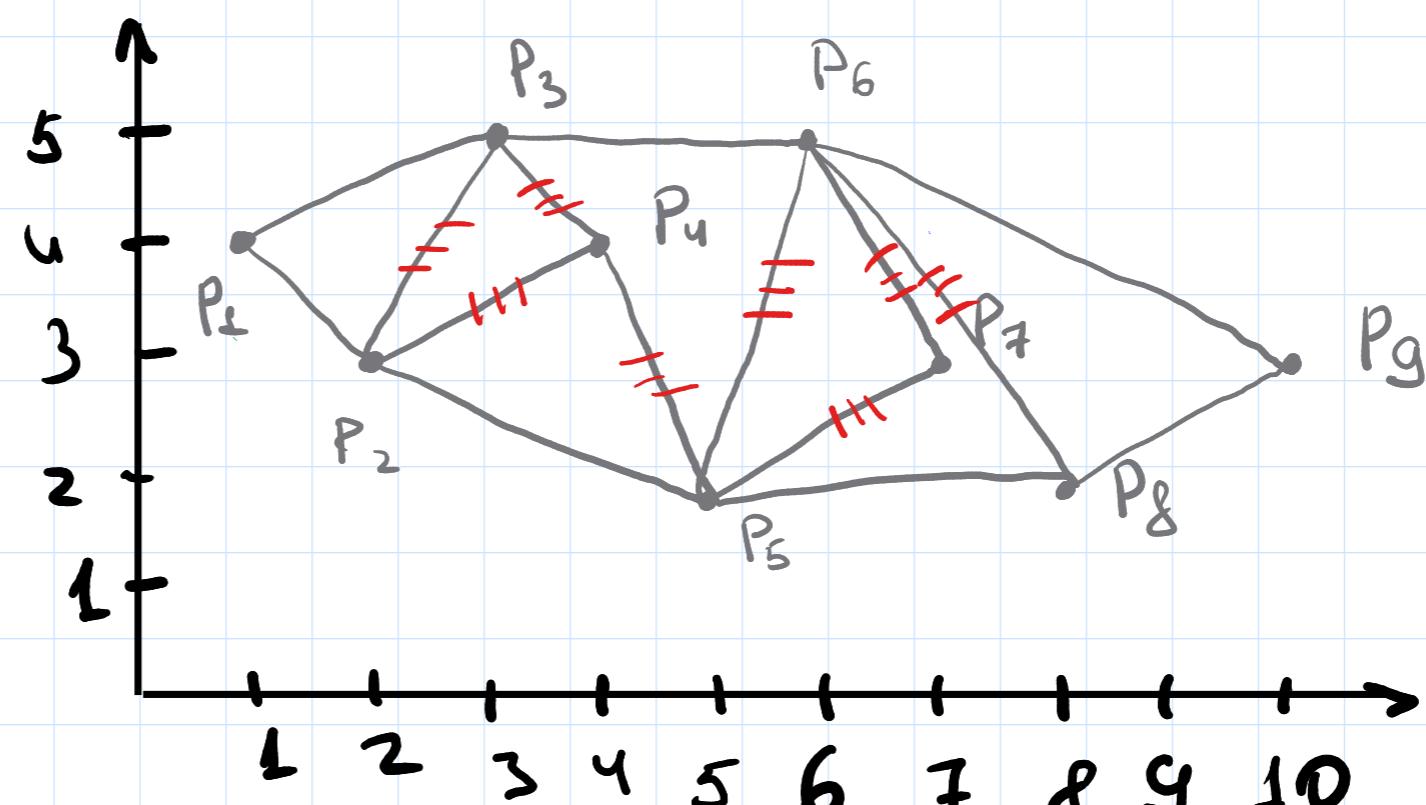
## Preparata method

Варіант № 70

1. Задано точки:

(1;4), (2;3), (3;5), (4;4),  
 (5;2), (6;5), (7;3), (8;2),  
 (10;3)

2. Вставити точку (11;3)



$$S = \{P_1, P_2, P_3, P_4, P_5, P_6, P_7, P_8, P_9\}$$

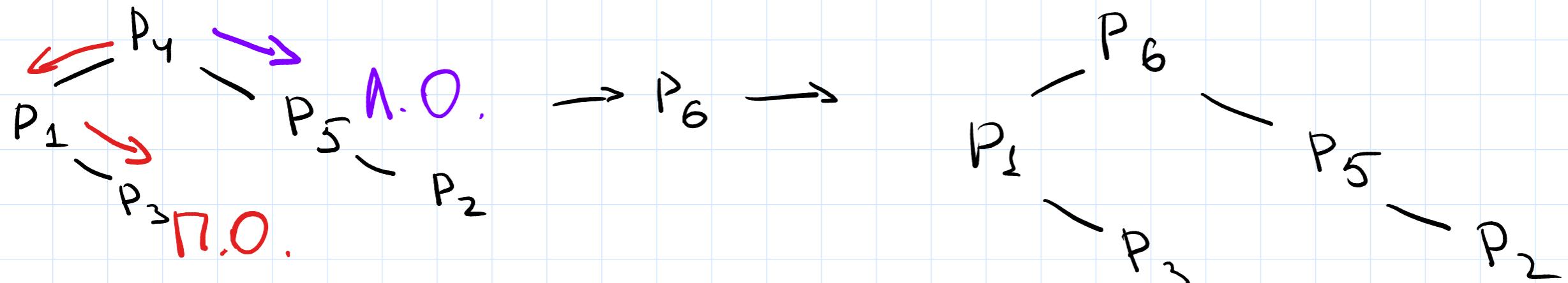
$$CH(S_L) = \{P_1, P_3, P_2\}$$

$$P_1 \rightarrow P_3 \rightarrow P_4 \rightarrow P_1 \rightarrow P_3 \rightarrow P_2 \rightarrow P_1$$

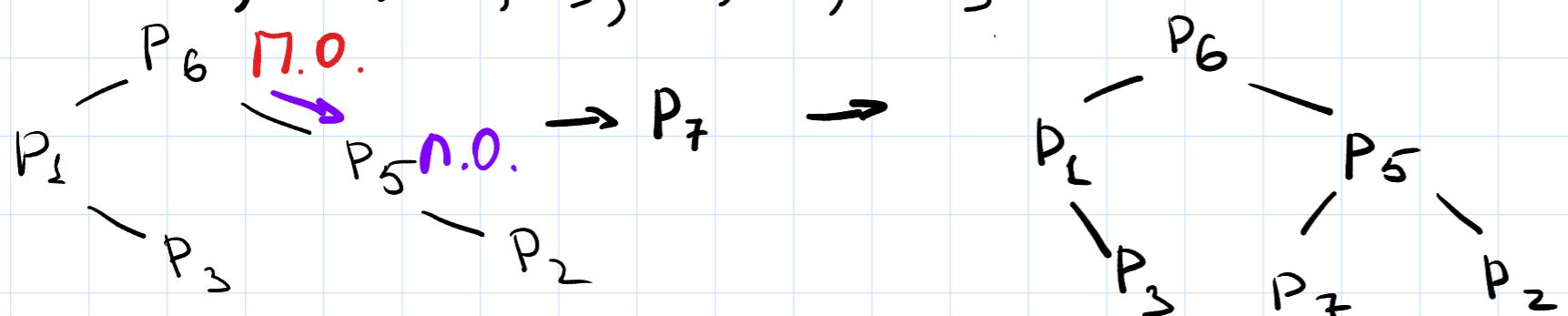
$$CH(S_2) = \{P_1, P_3, P_4, P_2\}$$



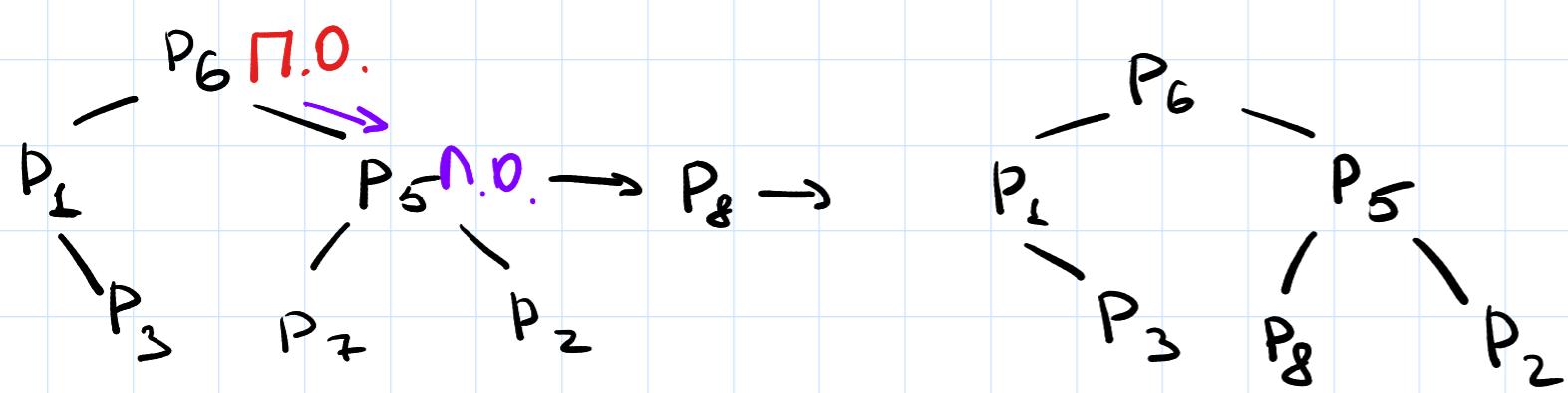
$$CH(S_3) = \{P_1, P_3, P_4, P_5, P_2\}$$



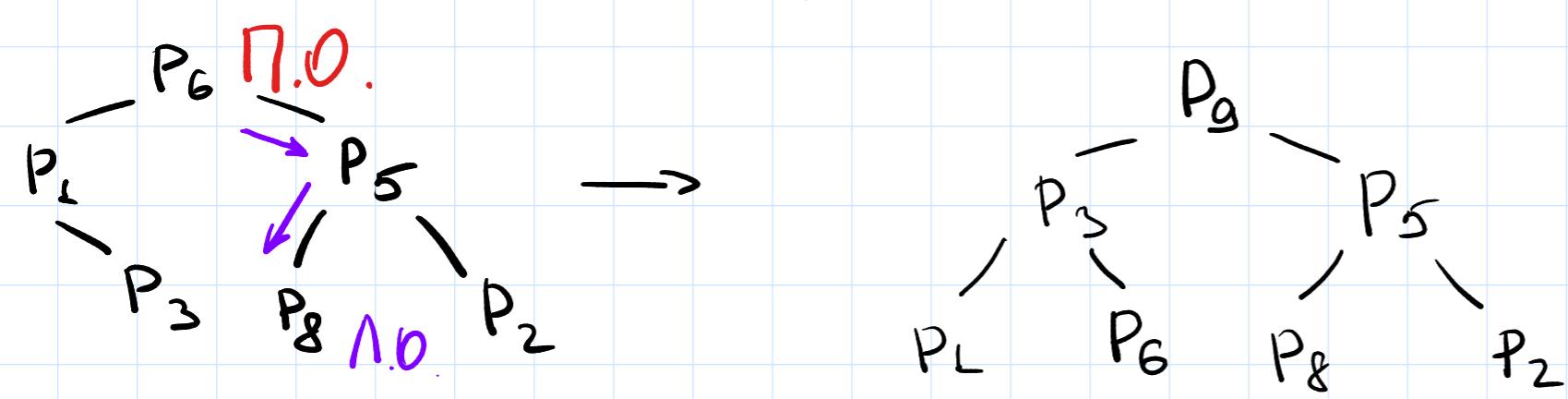
$$CH(S_4) = \{P_1, P_3, P_6, P_5, P_2\}$$



$$CH(S_5) = \{P_1, P_3, P_6, P_7, P_5, P_2\}$$



$$CH(S_6) = \{P_1, P_3, P_6, P_8, P_5, P_2\}$$



$$CH(S_7) = \{P_1, P_3, P_6, P_9, P_8, P_5, P_2\}$$

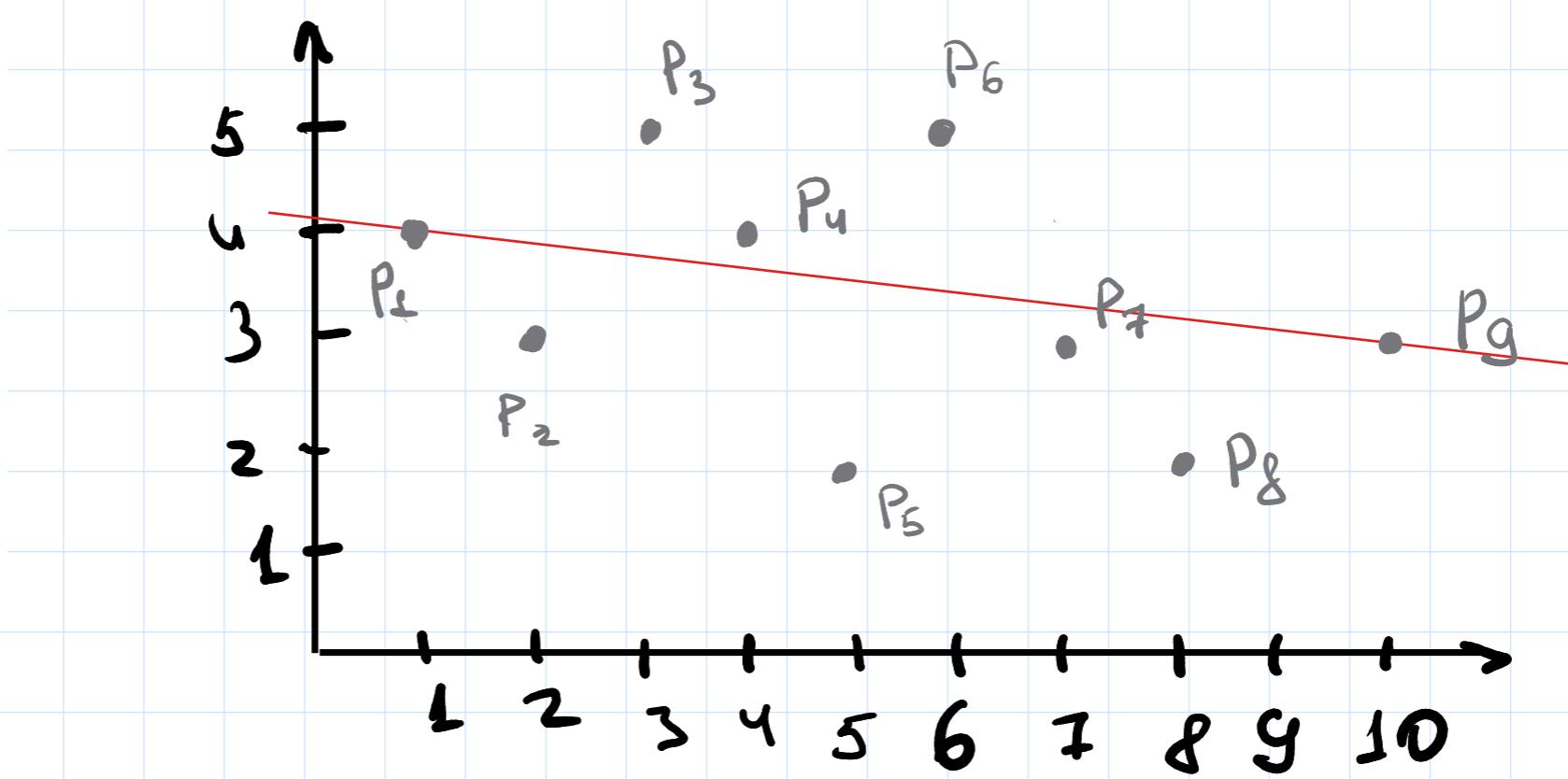
# Метод підтримки динамічної опуклої оболонки

Варіант № 70

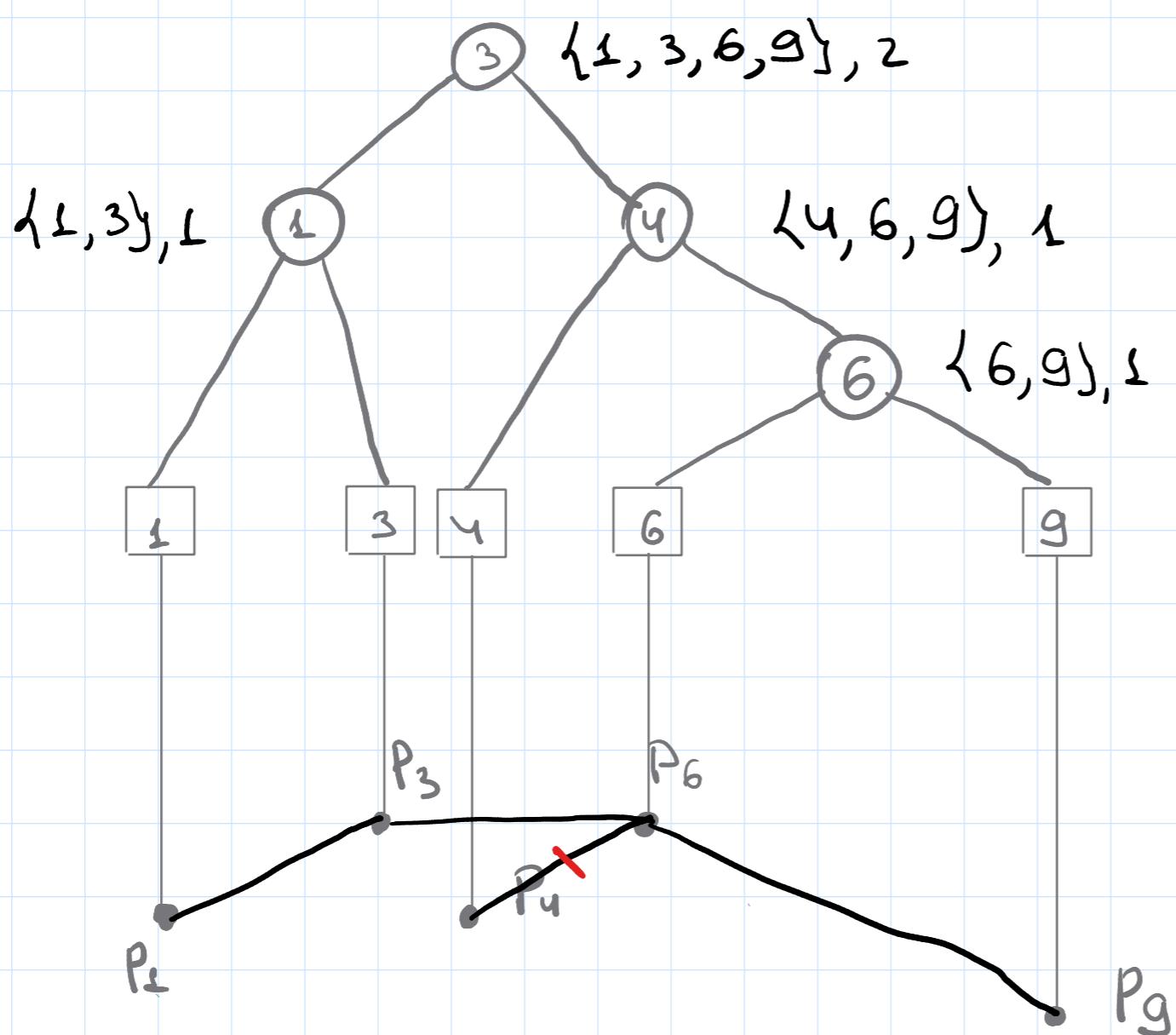
1. Задано точки:

$(1;4), (2;3), (3;5), (4;4), (5;2), (6;5), (7;3), (8;2), (10;3)$

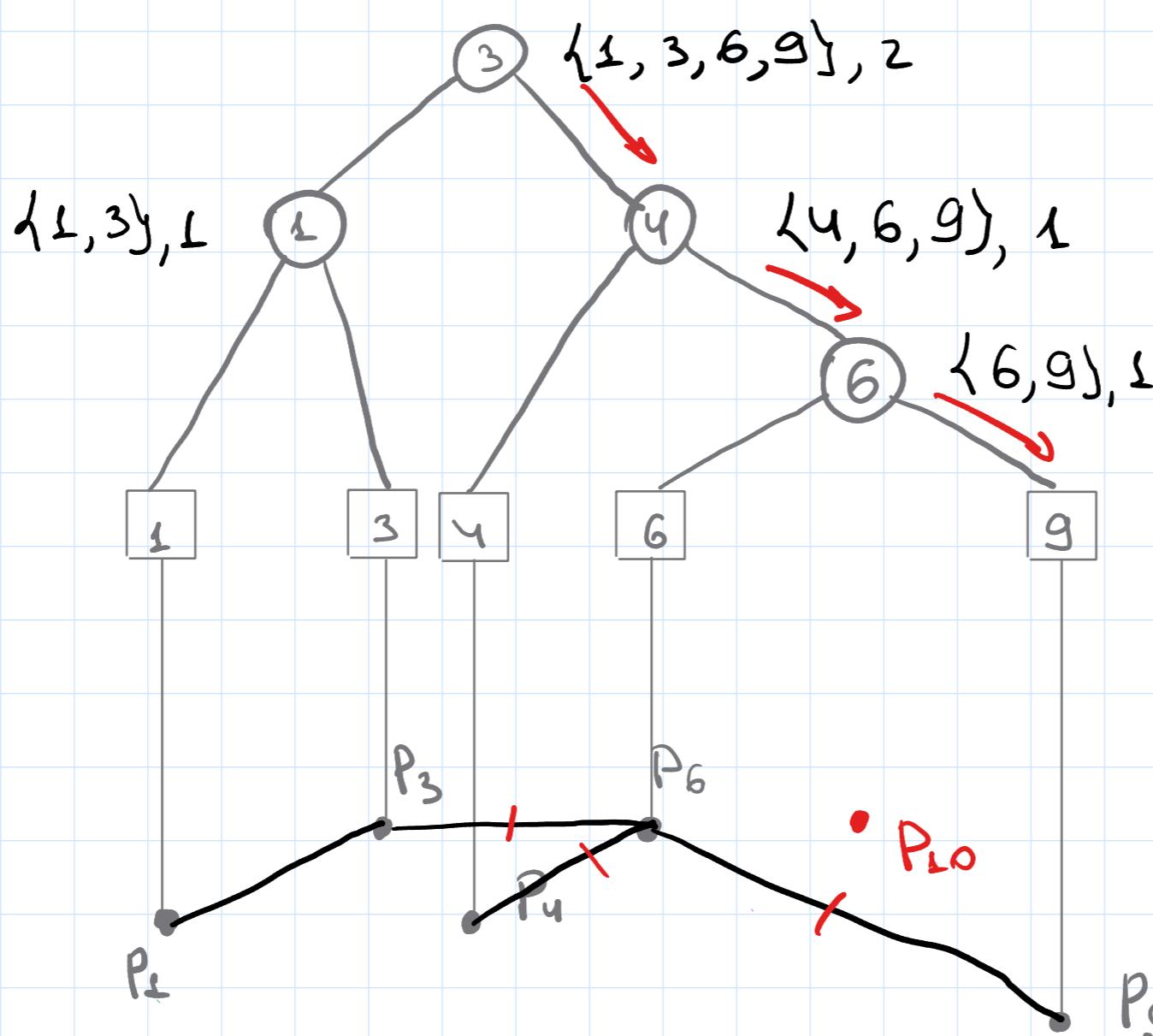
2. Вставити точку  $(11;3)$



$S_4$ :



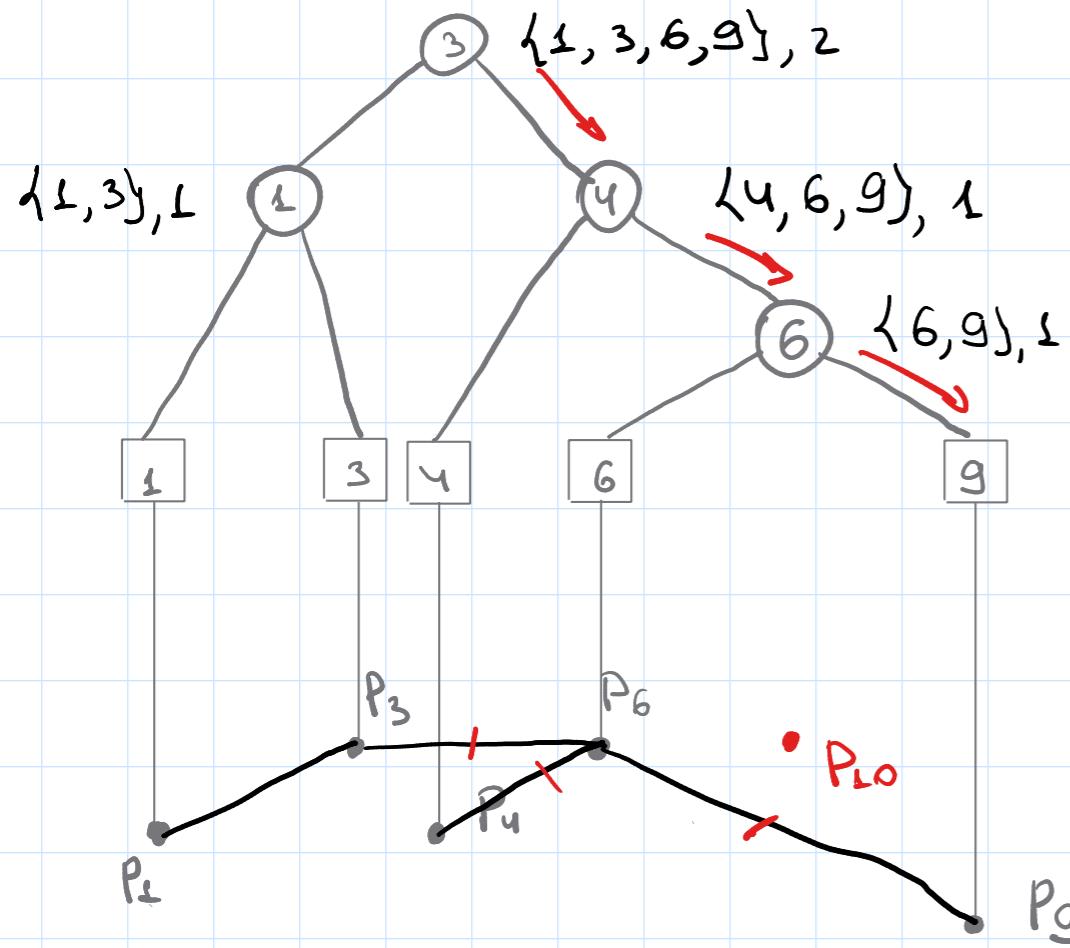
Нехай вставимо точку  $(8,5) = P_{10}$



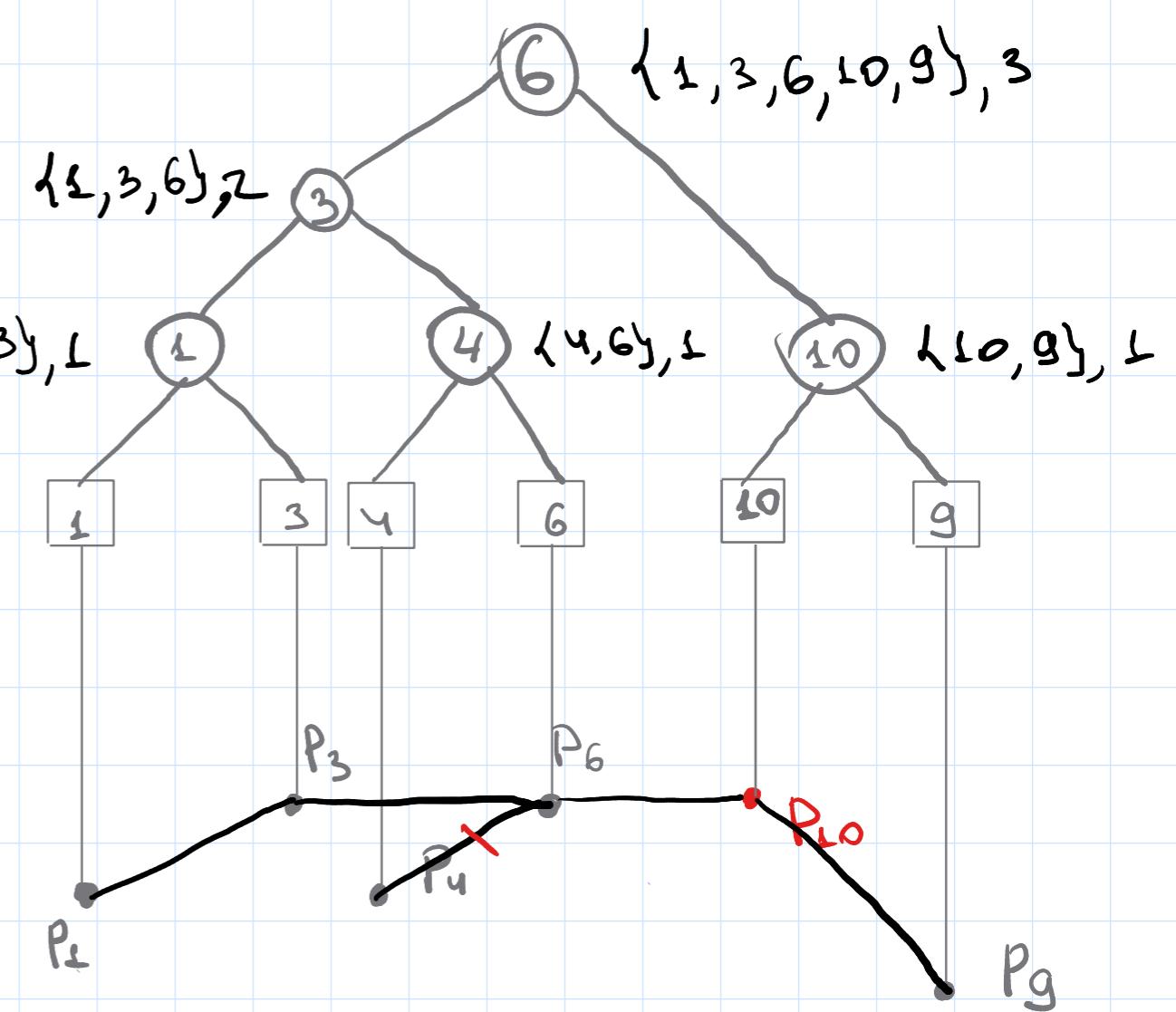
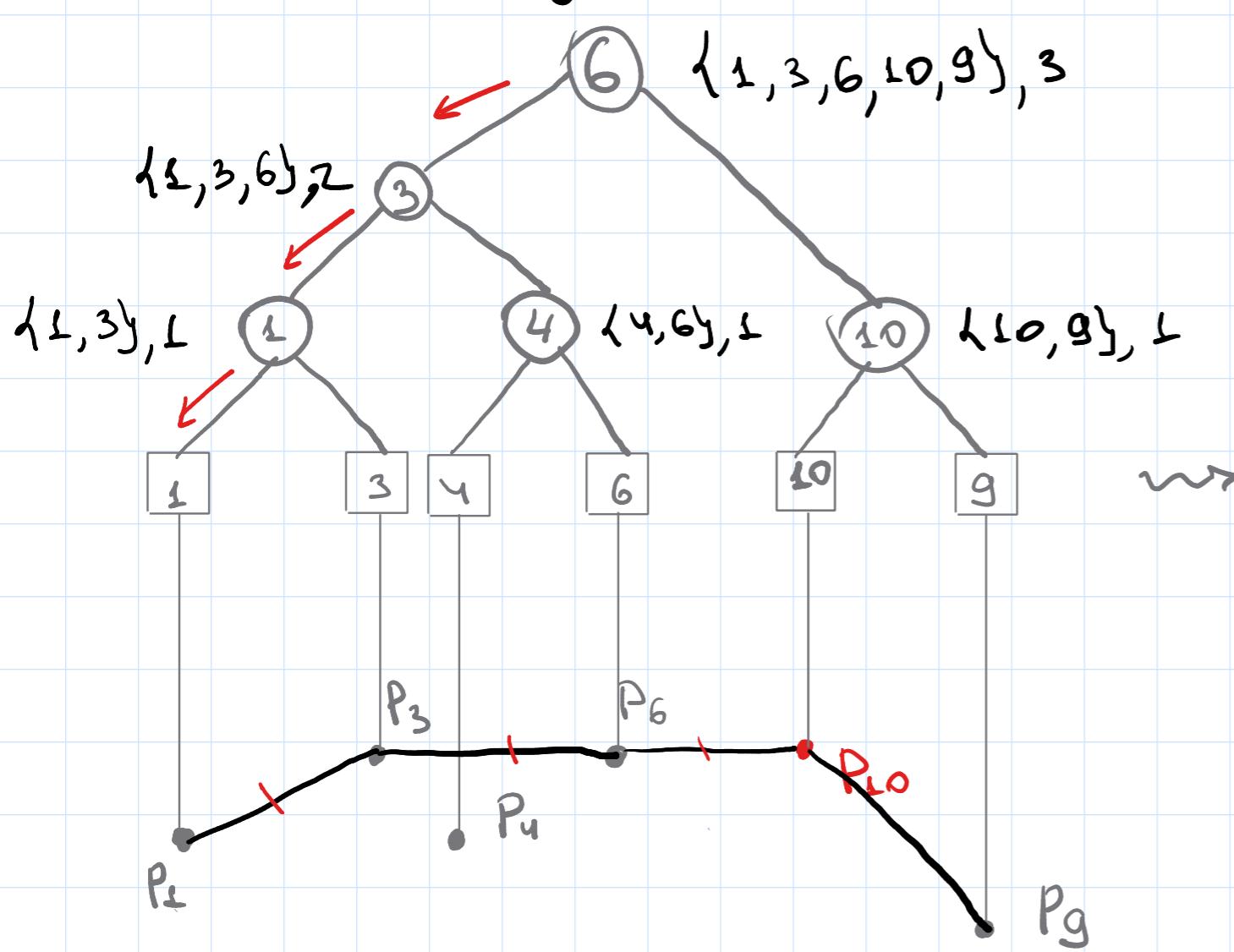
$x_{10} > x_3$ , розриваемо  $(3,6)$

$x_{10} > x_4$ , розриваемо  $(4,6)$

$x_{10} > x_6$



Bugamamu monkey  $P_1$



Onmuwiganis

