Specification:

Input: $N \in \mathbb{N}$

$M \in \mathbb{N}$

$minPoints : Array(1..M \in \mathbb{N})$

$Points : Array((1..M).(1..N) \in \mathbb{N})$

Output: $cnt \in \mathbb{N}$

$winners : Array(1..cnt \in \mathbb{N})$

Precondition: $1 \leq N \leq 100$

$1 \leq M \leq 100$

$\forall j\ (1 \leq j \leq M) : 1 \leq minPoints[j] \leq 100$

$\forall j (1 \leq j \leq M)$ and $\forall i (1 \leq i \leq N) : Points[j][i] \leq 100$

Post condition:

1) $$cnt = \sum_{j=1}^{N} 1$$

$\forall j\ (1 \leq j \leq N)$ and $\forall i (1 \leq i \leq M) : Points[i][j] \geq minPoints[i]$

and

$\forall k (1 \leq k \leq N)$ and $\forall i (1 \leq i \leq M) : Points[i][k] \geq minPoints[i] \rightarrow$

$$\rightarrow \sum_{i=1}^{M} Points[i][k] \leq \sum_{i=1}^{M} Points[i][j]$$

2) $\forall i (1 \leq i \leq M)$ and $\forall j\ (1 \leq j \leq cnt) : Points[i][(winners[j])] \geq minPoints[i]$

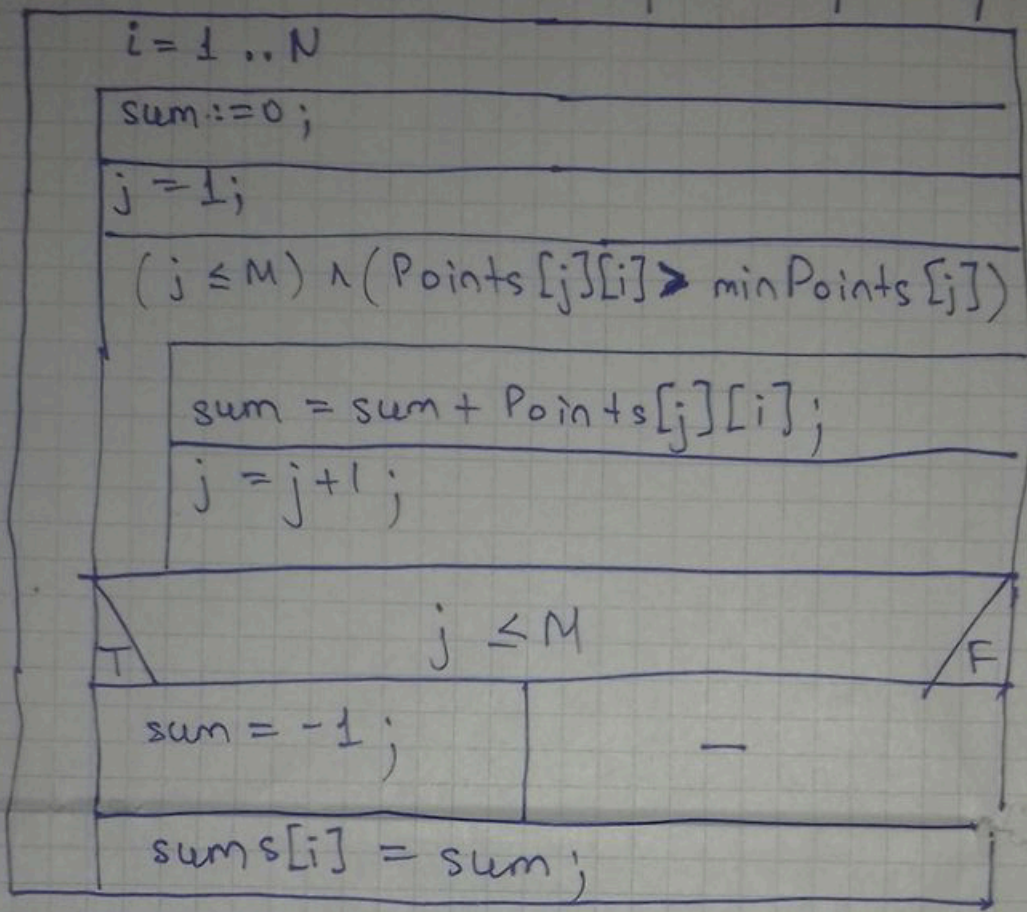
and

$\forall i (1 \leq i \leq M)$ and $\forall k (1 \leq k \leq N)$: if $Points[i][k] \geq minPoints[i] \Rightarrow$

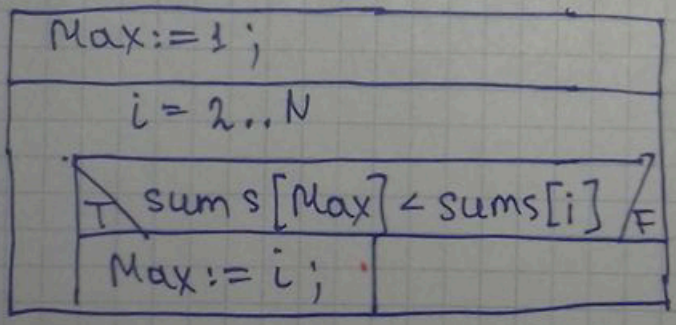
$$\rightarrow \sum_{i=1}^{M} Points[i][k] \leq \sum_{i=1}^{M} Points[i][(winners[j])]$$

3) winners is a set.

1) If a participant i in combination rank list, we add all points participant i, if participant i is not in combination rank list sum of points participant i is -1.



2) We pick maximum sum from sums array. ~~find~~



3) We select index of participants, who have Maximum sum. And count them.