## Problem 1007. Climb Stairs

DLee came to a new level. What is waiting for him is a tall building with $n$ floors, with a monster on each stair, the $i$-th of which has health point $a_{i}$.
DLee starts from the ground(which can be regarded as the 0 -th floor), with a base attacking point $a_{0}$. He can choose to jump $1,2, \ldots, k$ floors up or walk 1 floor down, but he cannot go to floors whose monster has a health point strictly greater than his attacking point, nor can he go to floors which had been visited. Once he comes and defeats a monster he can absorb his health point and add it to his attacking point.
Note that DLee should always be on floors $\{0,1,2,3, \ldots, n\}$.
Now DLee asks you whether it is possible to defeat all the monsters and pass the level.

## Input

There are $T$ test cases.
In each test case, the first line contains three integers: $n, a_{0}, k\left(1 \leq n, k \leq 10^{5}, 1 \leq a_{0} \leq 10^{9}\right)$, representing the number of floors, base attacking point, and the maximum number of floors that DLee can jump.
The second line contains $n$ integers $a_{1}, \ldots, a_{n}\left(1 \leq a_{i} \leq 10^{9}\right)$, representing the health point of each monster.
The sum of $n$ does not exceed $10^{6}$.

## Output

For each test case, output "YES" or "NO" to show whether it's possible to defeat all monsters.

## Example Input

```
4
614
221193
42
2381
312
312
723
4327202020
```


## Example Output

```
YES
YES
NO
NO
```

