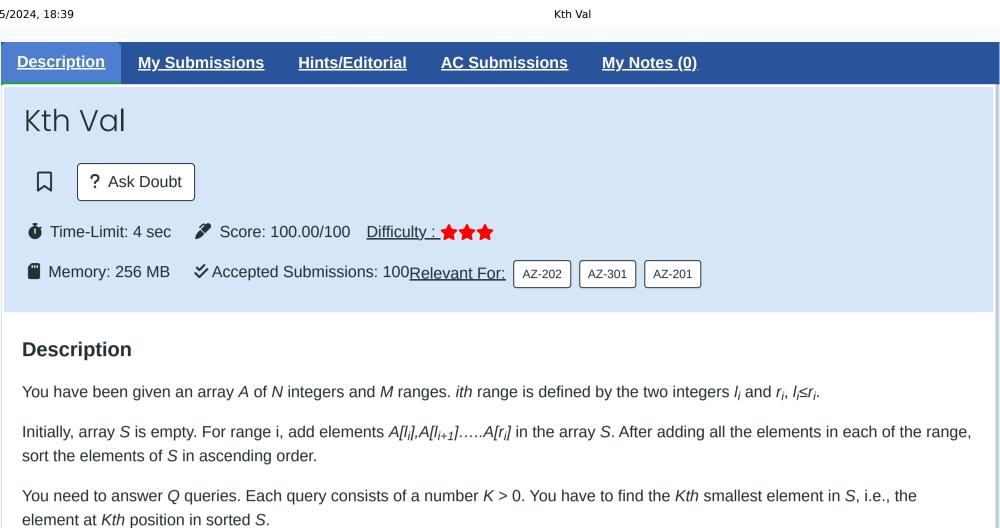
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It may be possible that the same element presents multiple times in S.

Input Format

The first line of the input contains a single integer T - the number of test cases ($1 \le T \le 10$). Then T test cases follow.

The first line of each test case contains three integers N, M, and Q, $(1 \le N, M, Q \le 10^5)$.

The second line contains *N* space-separated integers $A_1, A_2, ..., A_N$, the elements of the array $A_1, (1 \le A_i \le 10^9)$.

Next *M* lines contain two space-separated integers I_i and r_i - ith range, $(1 \le I_i \le r_i \le N)$.

The last line of a test case contains Q space-separated integers K_1 , K_2 ,..., K_Q , where K_i denotes the ith query. (1 $\leq K_i \leq$ 1 0^18).

Output Format

For each test case, print *Q* space-separated integers, where *ith* number denotes the answer of *ith* query. If the *Kth* value doesn't exist for a particular query, print -1.

Sample Input 1



```
2
3 3 4
1 3 2
2 3
1 2 5 8
4 2 3
1 5 4 3
1 3
1 5 7
```

<u>C++14[GCC]</u> ▼