

Inter University Programming Contest L



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Save Gotham		
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Problem statement

Bane wants to destroy the city by planting a security code bomb at Gotham tower. Bane is overconfident about his smartness and under estimated the Batman. He challenged Batman to defuse the bomb and provided him some numbers with a hint that the security code of the bomb is the product of the numbers that lie between **Lth** largest number and **Rth** largest number are inclusive).

Find the Security Code 'n' of the bomb in order to save the city.

Input:

The first line contain 'p' the number of test cases.

The first line of each test case contains 'n' i.e. the total numbers given by the Bane.

The second line of each test case contains an array of those **n** numbers.

The third line of each test case contains 'L' and 'R'.

Output:

For each test case output is the product modulo 10^9+9.

Constraints:

```
Sample Input (Plaintext Link)

2
3
9 2 5
3 3
6
1 4 7 6 9 3
5 6

Sample Output (Plaintext Link)
9
378
```

Explanation

In second sample, I = 5 and r = 6.

The 5th largest number is 7 and 6th largest number is 9.

So, output is 378.

Time Limit: 1 sec(s) for each input file.

Memory Limit: 256 MB Source Limit: 1024 KB

Scoring: Score is assigned when all testcases pass.

Allowed languages: C, C++, Clojure, Go, Haskell, C#, Java, Objective-C, Perl, PHP, Python, Ruby

Load Code Editor You can submit code after loading editor.

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Thatikun	100	0.5382	C++	
Prateek	100	0.4182	C++	
Nikhil K		0.5462	C++	
Nikunj J	100	0.4192	C++	
Pranshul	100	0.4217	C++	
Prateek		0.4133	C++	
Nikhil K		0.59	C++	
Rajat De	100	0.4025	C++	•

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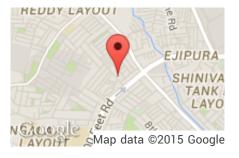
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