



Battle for the ultimate champion is on!

Cash prize : **\$21 K**

Qualifier Round

Ends on **16 OCT 2018**

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Qualifying to Pre-Elimination

Problem Code: **QUALPREL**



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All submissions for this problem are available.###Read problems statements in

[Hindi](#)

(<http://www.codechef.com/download/translated/S19QLTST/hindi/QUALPREL.pdf>).

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(<http://www.codechef.com/download/translated/S19QLTST/russian/QUALPREL.pdf>),

[Vietnamese](#)

(<http://www.codechef.com/download/translated/S19QLTST/vietnamese/QUALPREL.pdf>).

and [Bengali](#)

(<http://www.codechef.com/download/translated/S19QLTST/bengali/QUALPREL.pdf>).

as well.

Snackdown 2019 is coming! There are two rounds (round A and round B) after the qualification round. From both of them, teams can qualify to the pre-elimination round. According to the rules, in each of these two rounds, teams are sorted in descending order by their score and each team with a score greater or equal to the score of the team at the $K = 1500$ -th place advances to the pre-elimination round (this means it is possible to have more than K qualified teams from each round in the case of one or more ties after the K -th place).

Today, the organizers ask you to count the number of teams which would qualify for the pre-elimination round from round A for a given value of K (possibly different from 1500). They provided the scores of all teams to you; you should ensure that all teams scoring at least as many points as the K -th team qualify.

Input

- The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.
- The first line of each test case contains two space-separated integers N and K .
- The second line contains N space-separated integers S_1, S_2, \dots, S_N .

Output

For each test case, print a single line containing one integer — the number of qualified teams.

Constraints

- $1 \leq T \leq 1,000$
- $1 \leq K \leq N \leq 10^5$
- $1 \leq S_i \leq 10^9$ for each valid i
- the sum of N for all test cases does not exceed 10^6

Example Input

My Submissions

(/SNCKQL19/status/QUALPREL) (SNCKQL19status/Q

All Submissions

(/SNCKQL19/status/Q

Successful Submissions

+

```
2
5 1
3 5 2 4 5
6 4
6 5 4 3 2 1
```

Example Output

```
2
4
```

Author: 6★ [kingofnumbers \(/users/kingofnumbers\)](/users/kingofnumbers)

Tags: [kingofnumbers \(/tags/problems/kingofnumbers\)](/tags/problems/kingofnumbers)

Date Added: 10-10-2018

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.6, PYPY, CS2, PAS fpc, PAS gpc, RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, kotlin, PERL6, TEXT, SCM chicken, PYP3, CLOJ, COB, FS

Comments ▸

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[CodeChef \(http://www.codechef.com\)](http://www.codechef.com) - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

[Practice Section \(https://www.codechef.com/problems/easy\)](https://www.codechef.com/problems/easy) - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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[Contest Hosting \(http://www.codechef.com/hostyourcontest\)](http://www.codechef.com/hostyourcontest)
[Problem Setting \(http://www.codechef.com/problemsetting\)](http://www.codechef.com/problemsetting)
[CodeChef Tutorials \(http://www.codechef.com/wiki/tutorials\)](http://www.codechef.com/wiki/tutorials)
[CodeChef Wiki \(https://www.codechef.com/wiki\)](https://www.codechef.com/wiki)

Practice Problems

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