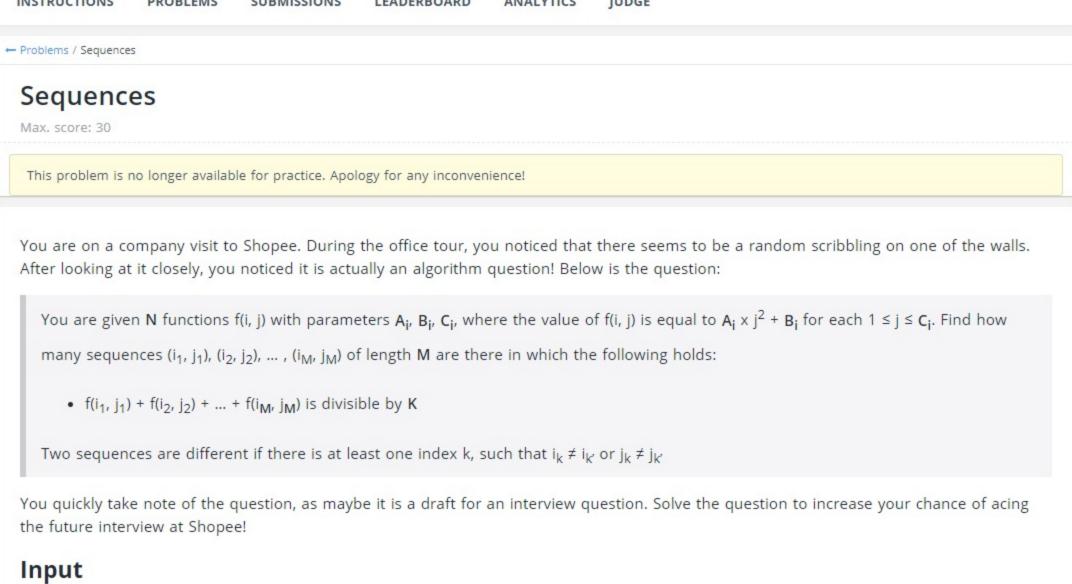
CHALLENGES

Shopee Programming Contest #1

Jun 27, 2020, 02:00 PM CST - Jun 27, 2020, 06:40 PM CST

INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE



C RECENT SUBMISSIONS DEVELOPERS RESULT LANGUAGE Python 3.8 Time Riders Smooth Operator 3 3 C++14 Jiahai Feng C++17 Meruru Meruru C++14 Time Riders Python 3.8 We Brew Beers Diogo Marguez Duthon 20 View All

The first line contains 3 integers N (1 \leq N \leq 5,000), M (1 \leq M \leq 1,000,000,000), and K (1 \leq K \leq 2,000).

The next N lines each contains 3 integers A_i , B_i , $(0 \le A_i, B_i \le K)$ and C_i $(1 \le C_i \le 1,000,000,000)$, denoting the parameters for the i-th function.

Output

One line containing a single integer, the number of the sequence. Since this number can be very large, output its value modulo 10⁹+7.

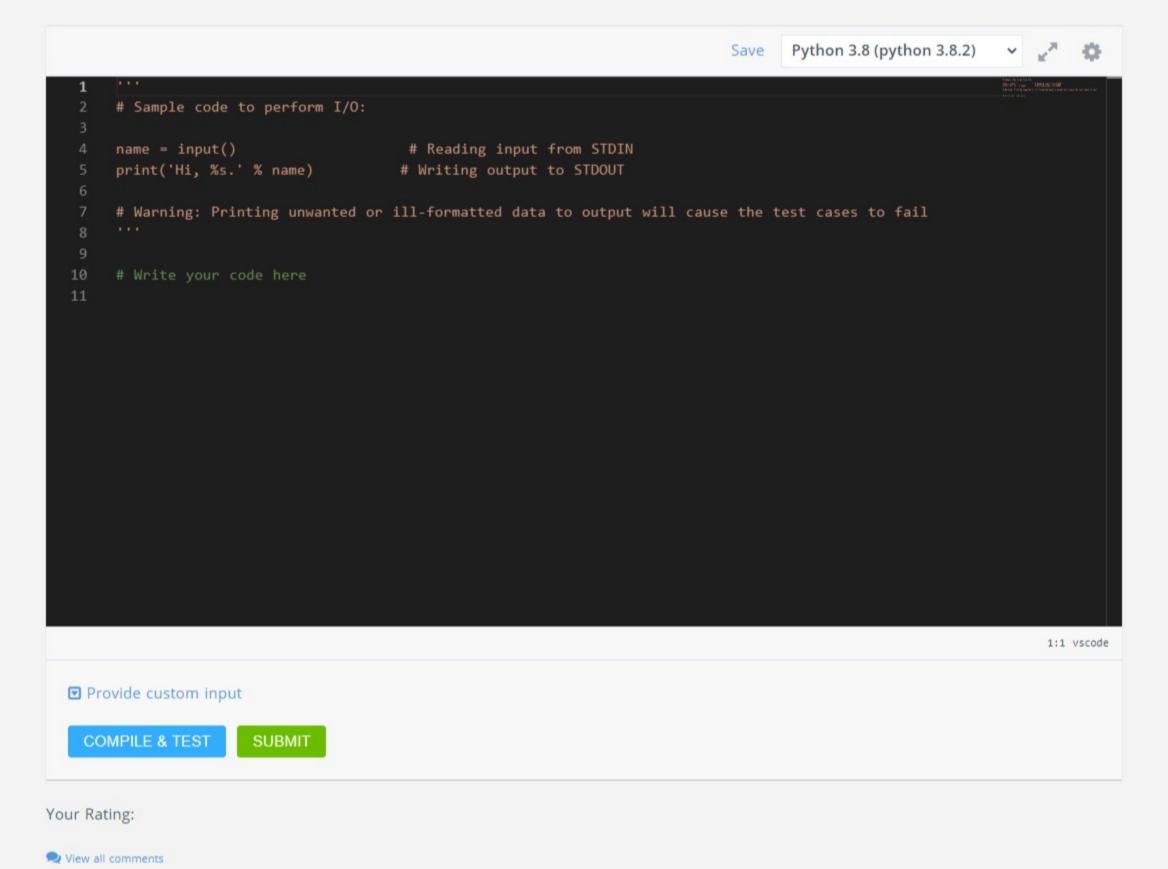
SAMPLE INPUT	% 2	SAMPLE OUTPUT	% 42
3 2 6		12	
0 3 2 1 2 3			
2 5 1			

Explanation

4.1, Swift, TypeScript, Visual Basic

```
Below are all the possible sequences:
    1. (1, 1), (1, 1)
    2. (1, 1), (1, 2)
    3. (1, 1), (2, 1)
    4. (1, 2), (1, 1)
    5. (1, 2), (1, 2)
   6. (1, 2), (2, 1)
   7. (2, 1), (1, 1)
    8. (2, 1), (1, 2)
   9. (2, 1), (2, 1)
  10. (2, 2), (2, 2)
  11. (2, 3), (3, 1)
  12. (3, 1), (2, 3)
Time Limit:
                      5.0 sec(s) for each input file.
Memory Limit:
                      256 MB
Source Limit:
                      1024 KB
                      Score is assigned when all the testcases pass.
Marking Scheme:
Allowed Languages: Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin,
                      Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, Python 3.8, R(RScript), Racket, Ruby, Rust, Scala, Swift-
```

CODE EDITOR



+1-650-461-4192 contact@hackerearth.com



Tech Recruitment Blog **Product Guides** Developer hiring guide **Engineering Blog Developers Blog** Developers Wiki **Competitive Programming** Start a Programming Club

Practice Machine Learning

Resources

Solutions

Assess Developers Conduct Remote Interviews **Assess University Talent** Organize Hackathons

Company About Us Press

Careers

Technical Support Contact Us

Service & Support