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Home » Compete » Bytecode 2017 » Whack a mole Whack a mole 🖶 ALL SUBMISSIONS MY SUBMISSIONS SUBMIT Problem code: BYCO17J Tweet Like Share Be the first of your friends to like this. Lakshmanaram spends his day off of work by going to the local arcade. He sees there's a new whack-a-SUCCESSFUL SUBMISSIONS \oplus mole game there, and decides to give it a shot. Whack-a-mole is a game where small toy moles appear at random from holes in the game board which then have to be whacked. With n coins in his pocket, *character* has the opportunity to whack n moles. There are 3 things displayed on the top of the game board; his hits, his score and his streak, all of which are initially 0. For every mole whacked, the hits and score increase by 1. For every consecutive hit, the streak increases by 1. When he misses, the streak goes back down to 0. The scoring is such that the maximum streak obtainable is \mathbf{s} , after which the streak goes back to 0 with the score being doubled. Example game; let n = 5 and s = 2. His game goes as follows: hit, hit, miss, hit, hit. After mole 1, his score and streak are 1, 1, After mole 2, his score and streak initially are 2, 2 which become 4,0 After mole 3, 4.0 After mole 4, 4,1 After mole 5, 5.2 ==> 10.0. After his game, he finds out that the score display was broken. It didn't display anything! Even though the number of hits (h) are recorded, character doesn't recall the exact sequence of his hits and misses. The arcade authorities decide to give him money equal to the minimum possible score he could have obtained (those cheats!). Help them calculate this value Given n, s and h in a single line as input, print one integer which is the minimum score he could obtain, modulo 10^9+7 Example input: 724 Output: Solution Hit, Miss, Hit, Miss, Hit, Miss, Hit rvns03 Author: Date Added: 4-03-2017 Time Limit: 1 sec Source Limit: 50000 Bytes ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.9.2, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.4, RUBY, SCALA, SCM chicken, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC Languages: Comments >

CodeChef is a non-commercial competitive programming community

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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 - 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.

Compete - Monthly Programming Contests and Cook-offs

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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