► PRACTICE & LEARN ► COMPETE ► DISCUSS An unacademy Educational Initiative **▶** OUR INITIATIVES **▶** ASSOCIATE WITH US ▶ MORE Home » Practice(Extcontest) » Stone Game **Stone Game** Problem Code: RESN04 Submit My Submissions All Submissions Alice and Bob play the following game: There are N piles of stones with Si stones in the ith pile. Piles are numbered from 1 to N. Alice and Bob play alternately, with **Successful Submissions** Alice starting. In a turn, the player chooses any pile i which has atleast i stones in it, and removes exactly i stones from it. The game ends when there is no such pile. The player who plays last wins the game. Assuming Alice and Bob play optimally, who will win the game? Input The first line contains the number of test cases T (<= 100). There follow 2T lines, 2 per test case. The first line of each test case conains N (<= 100), the number of piles. The second line contains N space seperated integers, specifying the number of stones in pile 1, pile 2, ..., pile N. There will be atleast 1 and atmost 1000 stones in any pile. Output Output T lines, one per test case. For each test case, output "ALICE" if Alice wins the game, and "BOB" if Bob wins the game. Example Input: 2 1 1 Output: ALICE ALICE All submissions for this problem are available. Author: <u>admin</u> Tags: <u>admin</u> 18-12-2009 Date Added: Time Limit: 3.07692 secs Source Limit: 50000 Bytes CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYPY, Languages: PYP3, TEXT, CPP17, PAS fpc, RUBY, PHP, NODEJS, GO, HASK, PERL, SCALA, kotlin, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, R, CAML, rust, ASM, FORT, FS, LISP clisp, SQL, swift, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, COB, SCM chicken, SCM qobi, ST, NEM, SQLQ Submit

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CodeChef - 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 two smaller programming challenges at the middle and end 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 the language of your choice. Our programming contest judge accepts solutions in over 55+ 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, Cook-off and Lunchtime

Here is where you can show off your computer programming skills. Take part in our 10 days long monthly coding contest and the shorter format Cook-off and Lunchtime coding contests. 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.

Programming Tools	Practice Problems	<u>Initiatives</u>	<u>Policy</u>
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Online IDE	<u>Easy</u>	Go for Gold	Terms of Service
<u>Upcoming Coding Contests</u>	Medium	CodeChef for Schools	<u>Privacy Policy</u>
Contest Hosting	<u>Hard</u>	College Chapters	Refund Policy
Problem Setting	<u>Challenge</u>	CodeChef for Business	Code of Conduct
CodeChef Tutorials	<u>Peer</u>		Bug Bounty Program
CodeChef Wiki	School		
	FAQ's		