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|  | **Contest Digests** | |  |  | | --- | --- | | Prob# | digest | | Author | Ilham Kurnia, Russ Cox | | Date | 2002, 2005 | | From | USAICO 2005 Day 1 | |

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| Problem digest: Contest Digests [Ilham Kurnia, Russ Cox, 2002]  Farmer John runs his own Olympiad, the USACOW, to keep his cows on  their hooves. FJ's Olympiad is a bit like the USACO contests with  N tasks (1 <= N <= 10), each with T (1 <= T <= 10) test cases, with  each test case worth a certain number of points P\_i (1 <= P\_i <=  400).  At the end of each contest, FJ posts the results on the barn wall,  using a digest format like the USACO scoring lines, with '\*'s marking  correct test cases, '.'s marking incorrect ones, and a total number  of points.  Bessie entered FJ's last contest and remembers N, the total number  of points for each test case, and her total score. She does not,  however, remember which cases she got correct and incorrect. Help  her find a possible digest line (test cases marked correct and  incorrect) for her score.  If there are multiple possible score lines, find the one that is  lexicographically first when '\*'s come before '.'s. Some solution  will exist for each input set.  PROBLEM NAME: digest  INPUT FORMAT:  \* Line 1: Two space-separated integers: N and S  \* Lines 2..N+1: Many space-separated integers: T\_i, ... . Each line  describes the test case points for a single task with a number  of space-separated integers. The first integer on the line,  T\_i, is the number of test cases. The remaining T integers are  the point values for the test cases for that problem.  SAMPLE INPUT (file digest.in):  2 850  3 100 200 200  2 250 300  OUTPUT FORMAT:  \* Lines 1..N: Bessie's results in the usual contest digest form: each  task should be on its own line, represented by a sequence of  '\*'s and '.'s. Line i reflects the results for task i.  SAMPLE OUTPUT (file digest.out):  \*\*.  \*\*  OUTPUT DETAILS:  Bessie can earn a score of 850 by getting every test case correct except  for task 1, test case 3. (Bessie could also get every test case correct  except for task 1, test case 2, but that score line -- \*.\* \*\* -- comes  lexicographically later.) |

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