Practice Arena

Practice problems aimed to improve your coding skills.

- PRACTICE-02_SCAN-PRINT
- PRACTICE-03_TYPES
- LAB-PRAC-02_SCAN-PRINT
- LAB-PRAC-01
- PRACTICE-04_COND
- BONUS-PRAC-02
- LAB-PRAC-03_TYPES
- PRACTICE-05_COND-LOOPS
- LAB-PRAC-04_COND
- LAB-PRAC-05_CONDLOOPS
- PRACTICE-07_LOOPS-ARR
- LAB-PRAC-06_LOOPS
- LAB-PRAC-07_LOOPS-ARR
  - Home Alone
  - Arrangements with Arrays
  - Overlapping Patterns
  - Lucky Draw
  - Diamond Array
  - Linear Leap
  - Candy Crush
  - Nested Safes
  - Heros Arc
  - Linear Loopy Maze
  - Histogram Heights
  - Changing Times
- LABEXAM-PRAC-01_MIDSEM
- PRACTICE-09_PTR-MAT
- LAB-PRAC-08_ARR-STR
- PRACTICE-10_MAT-FUN
- LAB-PRAC-09_PTR-MAT
- LAB-PRAC-10_MAT-FUN
- PRACTICE-11_FUN-PTR
- LAB-PRAC-11_FUN-PTR
- LAB-PRAC-12_FUN-STRUC
- LABEXAM-PRAC-02_ENDSEM
- LAB-PRAC-13_STRUC-NUM
- LAB-PRAC-14_SORT-MISC

Changing Times

LAB-PRAC-07_LOOPS-ARR

Changing times [20 marks]

Problem Statement
Mr. C likes change, but steady change. You will be given a list of **non-negative** integers as input. The list will use -1 as the delimiter i.e. the -1 will not be a part of the list. Your job is to find the length of the longest sequence of consecutive integers in the list that forms an AP. We promise that the list will contain at least one element.

Caution

1. Be careful about extra/missing lines and extra/missing spaces in your output.
2. A sequence a0, a1, a2, ..., ak is said to be in an AP if, for some integer p, we have aj - a(j-1) = p , for all j = 1, 2, ..k
3. A sequence of one or two integers is always in AP by default.

HINT: You may benefit from the use of flags in this question.

EXAMPLE:
INPUT
1 4 7 11 17 13 9 5 -1

OUTPUT:
4
Explanation: The largest sequence in AP in this list is 17 13 9 5

Grading Scheme:
Total marks: **[20 Points]**

There will be no partial grading in this question. An exact match will receive full marks whereas an incomplete match will receive 0 points. Please be careful of missing/extra spaces and missing/lines (take help of visible test cases). Each visible test case is worth 1 point and each hidden test case is worth 2 points. There are 2 visible and 4 hidden test cases.

Start Solving! (/editor/practice/6148)