



# 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\_CONDLLOOPS
- 📁 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

# Candy Crush

## LAB-PRAC-07\_LOOPS-ARR

## Candy Crush [10 marks]

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### Problem Statement

Your friendly neighborhood shopkeeper has decided to reward your excellent performance at JEE and give you some candies. She gives you a list of 10 integers (not all may be positive) and tells you to select two locations in the list (i.e. two numbers between 1 and 10 -- the first number being smaller than or equal to the second number).

Once you tell her these two locations, the shopkeeper will to give as many candies as the sum of all the numbers occurring between the locations indicated by you (including the locations specified by you). Write an algorithm to calculate what is the maximum number of candies you can get this way. Your input will be a list of 10 integers and your output should be the maximum number of candies you can get, the starting location, and the ending location, all separated by a single space with no trailing spaces at the end.

### Caution

1. Be careful about extra/missing lines and extra/missing spaces.
2. Be careful that array locations start from zero whereas in your output, you should give locations that start from one, just as we do in day to day conversations.
3. We assure you that the numbers in the list will all lie between -1000 and 1000.

**HINT:** You will require the use of arrays in this question. Maintaining a running max variable may also help.

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### EXAMPLE:

INPUT

1 3 5 2 6 -7 1 1 -3 1

OUTPUT:

17 1 5

**Explanation:** If you select the locations 1 and 5, then you get will get  $1+3+5+2+6 = 17$  candies since the numbers between the first and fifth locations (including both ends) in the list are 1, 3, 5, 2, 6. You can verify that this is the maximum number of candies you can get.

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### Grading Scheme:

Total marks: **[10 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/6143)