```
Duration
                     11 mins 40 secs
Question 1
Correct
Marked out of 1.00
Flag question
 Given an array of integers, reverse the given
 array in place using an index and loop rather
 than a built-in function.
 Example
 arr = [1, 3, 2, 4, 5]
 Return the array [5, 4, 2, 3, 1] which is the
 reverse of the input array.
 Function Description
 Complete the function reverseArray in the
 editor below.
 reverseArray has the following parameter(s):
 int arr[n]: an array of integers
 Return
 int[n]: the array in reverse order
 Constraints
 1 \le n \le 100
 0 < arr[i] \le 100
 Input Format For Custom Testing
 The first line contains an integer, n, the
 number of elements in arr.
 Each line i of the n subsequent lines (where 0
 \leq i < n) contains an integer, arr[i].
 Sample Case 0
 Sample Input For Custom Testing
 5
 1
 3
 2
 4
 5
 Sample Output
 5
 4
 2
 3
 1
 Explanation
 The input array is [1, 3, 2, 4, 5], so the reverse
 of the input array is [5, 4, 2, 3, 1].
 Sample Case 1
 Sample Input For Custom Testing
 4
 17
 10
 21
 45
 Sample Output
 45
 21
 10
 17
 Explanation
 The input array is [17, 10, 21, 45], so the
 reverse of the input array is [45, 21, 10, 17].
 Answer: (penalty regime: 0 %)
   Reset answer
      1 ▼
           * Complete the 'reverseArray'
      2
      3
      4
           * The function is expected to
      5
           * The function accepts INTEGE
      6
           */
      7
      8
      9
           * To return the integer array
                  - Store the size of the
     10
    11

    Allocate the array st

           *
    12
           *
    13
           * For example,
             int* return_integer_array_u
    14 ▼
    15
                  *result_count = 5;
           *
    16
           *
    17
                  static int a[5] = \{1, 2\}
           *
    18
           *
    19
                  return a;
           *
    20
           * }
    21
           *
    22 🔻
           * int* return_integer_array_u
    23
           *
                  *result_count = 5;
    24
           *
    25
                  int *a = malloc(5 * siz)
           *
    26
           *
                  for (int i = 0; i < 5;
    27 ▼
           *
    28
                       *(a + i) = i + 1;
           *
                  }
    29
           *
    30
           *
    31
           *
                  return a;
    32
           * }
    33
           *
    34
           */
    35 ▼
          int* reverseArray(int arr_coun
         *result_count=arr_count;
    36
    37
          int* reversed_arr=(int*)mallod
          for(int i=0;i<arr_count;i++)</pre>
    38
    39 ▼
         {
         reversed_arr[i]=arr[arr_count
    40
    41
    42
          return reversed_arr;
    43
    44
         Test
         int arr[] = \{1, 3, 2, 4, 5\};
         int result_count;
         int* result = reverseArray(5, ar
         for (int i = 0; i < result_count
                  printf("%d\n", *(result
  Passed all tests! <
Question 2
Correct
Marked out of 1.00
Flag question
 An automated cutting machine is used to cut
 rods into segments. The cutting machine can
 only hold a rod of minLength or more, and it
 can only make one cut at a time. Given the
 array lengths[] representing the desired
 lengths of each segment, determine if it is
 possible to make the necessary cuts using
 this machine. The rod is marked into lengths
 already, in the order given.
 Example
 n = 3
 lengths = [4, 3, 2]
 minLength = 7
 The rod is initially sum(lengths) = 4 + 3 + 2 =
 9 units long. First cut off the segment of
 length 4 + 3 = 7 leaving a rod 9 - 7 = 2. Then
 check that the length 7 rod can be cut into
 segments of lengths 4 and 3. Since 7 is
 greater than or equal to minLength = 7, the
 final cut can be made. Return "Possible".
 Example
 n = 3
 lengths = [4, 2, 3]
 minLength = 7
 The rod is initially sum(lengths) = 4 + 2 + 3 =
 9 units long. In this case, the initial cut can be
 of length 4 or 4 + 2 = 6. Regardless of the
 length of the first cut, the remaining piece will
 be shorter than minLength. Because n - 1 = 2
 cuts cannot be made, the answer is
 "Impossible".
 Function Description
 Complete the function cutThemAll in the
 editor below.
 cutThemAll has the following parameter(s):
 int lengths[n]: the lengths of the segments,
 in order
 int minLength: the minimum length the
 machine can accept
 Returns
 string: "Possible" if all n-1 cuts can be made.
 Otherwise, return the string "Impossible".
 Constraints
 \cdot \quad 2 \le n \le 10^5
 \cdot 1 \le t \le 10^9
 · 1 ≤ lengths[i] ≤ 10<sup>9</sup>
      The sum of the elements of lengths
 equals the uncut rod length.
 Input Format For Custom Testing
 The first line contains an integer, n, the
 number of elements in lengths.
 Each line i of the n subsequent lines (where 0
 \leq i < n) contains an integer, lengths[i].
 The next line contains an integer, minLength,
 the minimum length accepted by the
 machine.
 Sample Case 0
 Sample Input For Custom Testing
 STDIN Function
 4 \rightarrow lengths[] size n = 4
 3 \rightarrow lengths[] = [3, 5, 4, 3]
 5
 4
 3
 9
      \rightarrow minLength= 9
 Sample Output
 Possible
 Explanation
 The uncut rod is 3 + 5 + 4 + 3 = 15 units long.
 Cut the rod into lengths of 3 + 5 + 4 = 12 and
 3. Then cut the 12 unit piece into lengths 3
 and 5 + 4 = 9. The remaining segment is 5 +
 4 = 9 units and that is long enough to make
 the final cut.
 Sample Case 1
 Sample Input For Custom Testing
 STDIN Function
 3
      \rightarrow lengths[] size n = 3
 5
     \rightarrow lengths[] = [5, 6, 2]
 6
 2
 12 \rightarrow minLength = 12
 Sample Output
 Impossible
 Explanation
 The uncut rod is 5 + 6 + 2 = 13 units long.
 After making either cut, the rod will be too
 short to make the second cut.
 Answer: (penalty regime: 0 %)
   Reset answer
      2
           * Complete the 'cutThemAll' f
      3
      4
           * The function is expected to
      5
           * The function accepts follow
      6

    LONG_INTEGER_ARRAY leng

      7
               2. LONG_INTEGER minLength
      8
           */
      9
    10 ▼ /*
    11
           * To return the string from t
    12
    13
           * For example,
    14 ▼
           * char* return_string_using_s
                  static char s[] = "stat
    15
    16
           *
    17
                  return s;
           *
           * }
    18
    19
           *
    20 🔻
           * char* return_string_using_d
    21
                  char* s = malloc(100 *
           *
    22
    23
                  s = "dynamic allocation
           *
    24
           *
    25
                  return s;
           *
    26
           * }
    27
           *
    28
    29 🔻
          char* cutThemAll(int lengths_d
          long t=0, i=1;
    30
          for(int i=0;i<=lengths_count;i</pre>
    31 🔻
    32
               t+=lengths[i];
    33
          }
         do{
    34 ▼
    35 ▼
               if(t-lengths[lengths_count
                    return "Impossible";
    36
     37
     38
               1++;
    39
         while(i<lengths_count-1);</pre>
    40
          return "Possible";
    41
    42
          }
    43
         Test
         long lengths[] = \{3, 5, 4, \dots \}
         printf("%s", cutThemAll(4, lengt
         long lengths[] = \{5, 6, 2\};
         printf("%s", cutThemAll(3, lengt
  Passed all tests! <
                                   Finish review
```

Quiz navigation

Finish review

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GE23131-Programming Using C-

**Status** Finished

Started Wednesday, 15 January

**Completed** Wednesday, 15 January

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