





Variadic functions in C ★

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Problem

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Variadic functions are functions which take a variable number of arguments. In C programming, a variadic function will contribute to the flexibility of the program that you are developing.

The declaration of a variable, and uses an ellipsis as the last parameter, e.g.

int printf(const char* format, ...);

In this problem, you will implement three variadic functions named sum(), min() and max() to calculate sums, minima, maxima of a variable number of arguments. The first argument passed to the variadic function is the count of the number of arguments, which is followed by the arguments themselves.

Input Format

- The first line of the input consists of an integer number_of_test_cases.
- Each test case tests the logic of your code by sending a test implementation of 3, 5 and 10 elements respectively.
- You can test your code against sample/custom input.
- The error log prints the parameters which are passed to the test implementation. It also prints the sum, minimum element and maximum element corresponding to your code.

Constraints

 $1 \leq number_of_test_cases \leq 50$

 $1 \leq element \leq 1000000$.

Output Format

"Correct Answer" is printed corresponding to each correct execution of a test implementation."Wrong Answer" is printed otherwise.

Sample Input 0

1

Sample Output 0

Correct Answer
Correct Answer

Correct Answer



```
Change Theme Language: C
                                                                              (O)
                                                                                      K ZI
         elements[1] = rand() % (MAX_ELEMENT - MIN_ELEMENT + 1) + MIN_ELEMENT;
134
         elements[2] = rand() % (MAX_ELEMENT - MIN_ELEMENT + 1) + MIN_ELEMENT;
135
         elements[3] = rand() % (MAX_ELEMENT - MIN_ELEMENT + 1) + MIN_ELEMENT;
136
         elements[4] = rand() % (MAX_ELEMENT - MIN_ELEMENT + 1) + MIN_ELEMENT;
137
         elements[5] = rand() % (MAX_ELEMENT - MIN_ELEMENT + 1) + MIN_ELEMENT;
138
         elements[6] = rand() % (MAX_ELEMENT - MIN_ELEMENT + 1) + MIN_ELEMENT;
139
         elements[7] = rand() % (MAX_ELEMENT - MIN_ELEMENT + 1) + MIN_ELEMENT;
140
141
         elements[8] = rand() % (MAX_ELEMENT - MIN_ELEMENT + 1) + MIN_ELEMENT;
         elements[9] = rand() % (MAX_ELEMENT - MIN_ELEMENT + 1) + MIN_ELEMENT;
142
143
144
          fprintf(stderr, "Sending following ten elements:\n");
145
          for (int i = 0; i < 10; i++) {
146
              fprintf(stderr, "%d\n", elements[i]);
147
148
         int elements_sum = sum(10, elements[0], elements[1], elements[2], elements[3],
149
      elements[4],
                                 elements[5], elements[6], elements[7], elements[8], elements
150
      [9]);
151
          int minimum_element = min(10, elements[0], elements[1], elements[2], elements[3],
      elements[4],
                                 elements[5], elements[6], elements[7], elements[8], elements
152
      [9]);
                                                                                 Line: 203 Col: 2
                                                                     Run Code
                                                                                   Submit Code
 Test against custom input
```

You have earned 50.00 points!

You are now 105 points away from the gold level for your c badge.

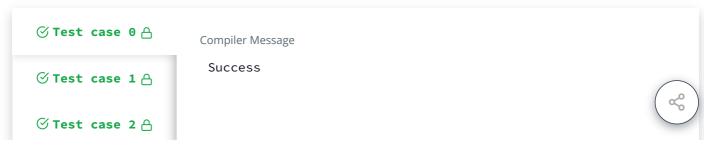
65% 395/500





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