

CISS240: Introduction to Programming
Quiz q1703

Name: _____

Score:

Q1. Write a C++ program that declares an array **a** of 1000 doubles *initializing* all the values to 0.0, obtain 1000 doubles from the user to be placed in the array (using a loop), compute and print the average of the values in the array (using another loop), and finally compute and print the average of the values in the array which are strictly positive (i.e., > 0) (using yet another loop).

ANSWER:

```
#include <iostream>

int main()
{
    return 0;
}
```

Q2. You are given the following array (which is sorted in ascending order):

-8	-7	-7	-3	-1	1	2	3	4	4	8	12	15	16	19
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Using the binary search algorithm from our notes, list down the index values and the corresponding array values of the array that was actually accessed during the search for the target value of 2. (I have already completed the first row for you.)

ANSWER:

7	3
?	?

Q3. Refer to the above question. How many probes (i.e., number of times a value in the array was accessed) did the above binary search make?

ANSWER:

?

Q4. Refer to the array in the above question. How many probes do you need if you use linear search to find 2?

ANSWER:

?