Login to matrix and create a file called "quiz.txt".

Answer the following questions and when done enter the following command:

~fardad.soleimanloo/submit oopq2 <ENTER>

1- What is the exact output of the following program:

```cpp
#include <iostream>
using namespace std;
int& ref(int& r, int i){
    r = r + i;
    return r;
}
int main() {
    int a = 25;
    int b = 5;
    int& R = b;
    R += 10;
    cout << b << endl;
    ref(b, a) += 20;
    cout << b << endl;
    return 0;
}
```

2- If there is a sturct called Student create a dynamic array of 100 students and delete it in next line.

3- If there a function called sort (void sort(int arr[], int size)) already exists in a library called "sort.h". Using "dynamic memory allocation" write a program that sorts unknown number of integers received from user:

   1- Ask the user for number of integers.
   2- Allocate a dynamic array of integers with the size of the number you just received
   3- In a loop get the numbers one by one from user.
   4- Pass the array to the sort function above.
   5- In a loop print sorted numbers one by one
   6- Delete the dynamically allocated array of integers.