

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:

```
#include <iostream>
using namespace std;
int& ref(int& r, int i){
    r = r - i;
    return r;
}
int main() {
    int a = 2;
    int b = 5;
    int& R = b;
    R += 8;
    cout << b << endl;
    ref(b, a) += 20;
    cout << b << endl;
    return 0;
}
```

2- If there is a struct called Employee create a dynamic array of 50 Employees and delete it in next line.

3- If there a function called sort (void sort(double A[], int size, bool ascending = true)) already defined in a library called "sort.h", using "dynamic memory allocation" write a program that sorts unknown number of doubles received from user in ascending order:

- 1- Ask the user for number of doubles.
- 2- Allocate a dynamic array of doubles 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.