

Answer this quiz in a file called q89.txt on matrix and submit it as follows:

~fardad.soleimanloo/submit oopq89

Q8 - Convert the following function to a template so it can be used for any type of array.

```
int search(const double array[], const double& val, int size) {
    int i = 0;
    int foundIndex = -1;
    for (i = 0; i < size; i++) {
        if (array[i] == val) {
            foundIndex = i;
        }
    }
    return i;
}
```

Then explain what the type needs to implement for the template to function?

Q9- if this quiz is saved under the file name quiz.txt, what is the exact output of the following program:

```
#include <fstream>
#include <iostream>
using namespace std;
int main() {
    int n = 10;
    int i;
    char str[81] = "empty!";
    fstream file("quiz.txt", ios::in);
    for (i = 0; i < 5; i++) {
        while (file.get() != '=');
        file >> n;
        cout << n << endl;
    }
    file >> str;
    cout << str;
    cout << endl;
    return 0;
}
```