

/*

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Assignment: Homework 4.2, e.g., Lab1C

All the code checks in homework 4.2.

*/

Q6)

```
#include <iostream>
#include <string>
using namespace std;

int main()
{
    cout << "Enter a word: " << endl; //receive string input

    string s = "";
    cin >> s;
    string r = "";
    int i = 0;

    while (i < s.length())    //while i is less then string length
    {
        char c = s.at(i);    //get character at index
        r = c + r;           //concatenate character to string r
        i++;                 //increment index
    }
    cout << r;               //reverse string

    return 0;
}
```

Q3)

```
#include <iostream>
using namespace std;

int main()
{
    cout << "Enter a positive integer: " << endl;
    int n;
    cin >> n;

    while(n > 0)
```

```

{
    int digit = n % 10;
    n = n / 10;
    cout << digit;           //reverse positive numbers
}

cout << endl;

return 0;
}

```

Q4)

```

#include <iostream>
using namespace std;

int main()
{
    cout << "Enter an integer: " << endl; //reverses both positive and negative numbers
    int n;
    cin >> n;

    while(n > 0)           //reverse inputted positive number
    {
        int digit = n % 10;
        n = n / 10;
        cout << digit;
    }

    if(n < 0)               //reverse inputted negative number
    {
        cout << "-"; //if negative just concatenate a - sign and reverse the numbers
        n = n * -1;
        while(n > 0)
        {
            int digit = n % 10;
            n = n / 10;
            cout << digit;
        }
    }

    cout << endl;

    return 0;               //I coded it so that if the input was -543 it would output -345
}

```