

323.35

palindrome checker

C++

Matthew Flammia, 23661371

Due 12/10/20 6pm

Cover page

#### Source Code

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

int main(){
    string input = "";
    string option = "Y";
    while(option != "N"){
        cout<<"Please enter a string to check if a palindrome:";
        cin>>input;
        int front = 0;
        int back = input.size()-1;
        bool panin = true;
        while(front < back){
            if(input[front] != input[back]){
                panin = false;
                break;
            }
            front++;
            back--;
        }
        if(panin){
            cout<<"Yes, "<<input<<" is a palindrome\n";
        }
        else{
            cout<<"No, "<<input<<" is not a palindrome\n";
        }
        cout<<"Would you like to continue? Y/N"<<endl<<"Choice:";
        cin>>option;
    }
    return 0;
}
```

#### Outputs

Please enter a string to check if a palindrome:CSC

Yes, CSC is a palindrome

Would you like to continue? Y/N

Choice:Y

Please enter a string to check if a palindrome:MOM

Yes, MOM is a palindrome

Would you like to continue? Y/N

Choice:Y

Please enter a string to check if a palindrome:JAVA

No, JAVA is not a palindrome

Would you like to continue? Y/N

Choice:Y

Please enter a string to check if a palindrome:PDF

No, PDF is not a palindrome

Would you like to continue? Y/N

Choice:N