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

class word {
public:
    string name, newname, replacestring;
    char c;
    int j = 0, i = 0, count = 0, sposition = 0, length = 0, check = 0;

    void getdata() {
        std::cout << "Enter the string: ";
        cin >> name;
    }
```

```
  void frequency()
{
    std::cout << "Enter the Character you want to check: ";
    cin >> c;
    while (name[i] != '\0')
    {
       if (name[i] == c)
          {
            count++;
          }
       i++;
    }
    std::cout << "Frequency of " << c << " is " << count << endl;
  }
```

```
    void position()
{       std::cout << "Enter the starting position: ";
        cin >> sposition;
        std::cout << "Enter the length: ";
        cin >> length;
        for (i = (sposition - 1); i < sposition - 1 + length; i++)
        {           std::cout << name[i];
        }
        std::cout << endl;
    }
```

```
void remove() {
    std::cout << "Enter the character you want to remove: ";
    cin >> c;
    i = 0;
    while (name[i] != '\0') {
        if (name[i] != c) {
            std::cout << name[i];
        }
        i++;
    }
    std::cout << endl;
}
```

```
    void palindrome()
{       while (name[i] != '\0')
        {  length++;
           i++;
        }
        for (i = (length - 1); i >= 0; i--) {
           newname[j] = name[i];
           j++;
        }
        i = 0;
        while (i < length) {
           if (newname[i] != name[i]) {
              check = 1;
           }
           i++;
        }
        if (check == 1) {
            std::cout << name << " is Not a palindrome.\n";
        } else
```

```
std::cout << name << " is a palindrome.\n";
}
```

```
    void replace() {
        string w, x;

        std::cout << "Enter the substring to replace: ";
        cin >> w;
        std::cout << "Enter the replacement string: ";
        cin >> x;

        size_t found = name.find(w);
        if (found != string::npos) {
            name.replace(found, w.length(), x);
            std::cout << "String after replacement: " << name << endl;
        } else {
            std::cout << "Substring not found in the original string."
<< endl;
        }
    }
};
```

```
int main() {
    word w;
    int op, r;

    do {
        std::cout << "Please Select the operation\n";
        std::cout << "1. Add the String\n2. Determine the
frequency\n3. New string from original string by starting
position and length\n4. Remove character from string\n5.
Palindrome\n6. Replace substring\n7. Exit\n";
        cin >> op;
        switch (op) {
            case 1:
                w.getdata();
                break;

            case 2:
                w.frequency();
                break;

            case 3:
```

```
    w.position();
    break;

case 4:
    w.remove();
    break;

case 5:
    w.palindrome();
    break;

case 6:
    w.replace();
    break;

case 7:
    exit(0);
    break;

default:
```

```
            std::cout << "Please Enter the correct choice" << endl;
            break;
        }
        std::cout << "For Continue Press 1 (Yes) 2 (No): ";
        cin >> r;

    } while (r == 1);
    return 0;
}
```