```
main.c
                                          []
                                                -<u>;</u>ó-
                                                      ∝ Share
                                                                    Run
                                                                              Output
   #include <stdio.h>
                                                                             Enter string: aabb
   #include <string.h>
                                                                             Rejected
   int main() {
        char str[100];
        printf("Enter string: ");
        scanf("%s", str);
        int len = strlen(str);
        if (len >= 2 && str[0] == 'a' && str[len - 1] == 'a')
            printf("Accepted\n");
           printf("Rejected\n");
14
```

```
-;ó:-
                                                      ∝ Share
main.c
                                                                    Run
                                                                              Output
   #include <stdio.h>
                                                                            Enter string: o0111
                                                                            Accepted (NFA Simulation)
   int main() {
        char str[100];
        printf("Enter string: ");
        scanf("%s", str);
8
        int len = strlen(str);
        if (len >= 2 && str[0] == '0' && str[len - 1] == '1')
10
            printf("Accepted (NFA Simulation)\n");
11
12
            printf("Rejected\n");
13
14
15 }
16
```

```
3
                                                     ∝ Share
                                                                             Output
main.c
                                                                  Run
   #include <stdio.h>
                                                                           ε-closure(0): { 0 1 }
                                                                           ε-closure(1): { 1 2 }
    int eClosure[STATES][STATES] = {
                                                                           ε-closure(2): { 2 }
4
 6
8
   void findEClosure(int state) {
       printf("ε-closure(%d): {", state);
9
        for (int i = 0; i < STATES; i++) {
10
            if (eClosure[state][i])
   int main() {
        for (int i = 0; i < STATES; i++) {
18
19
            findEClosure(i);
20
```

```
[]
                                                -;o;-
                                                      ⋄ Share
                                                                              Output
main.c
                                                                    Run
   #include <stdio.h>
                                                                            Enter string: 0111
    #include <string.h>
                                                                            Accepted
    int checkA(const char *str, int i, int len) {
        while (i < len - 1) {
            if (str[i] != '0' && str[i] != '1') return 0;
 5
 6
 8
9
10
   int main() {
        char str[100];
        printf("Enter string: ");
        scanf("%s", str);
14
        int len = strlen(str);
16
        if (len >= 2 && str[0] == '0' && str[len - 1] == '1' && checkA(str
            , 1, len))
            printf("Accepted\n");
18
19
            printf("Rejected\n");
20
22 }
```

```
main.c
                                          -;ó:-
                                                     ∝ Share
                                                                   Run
                                                                             Output
 1 #include <stdio.h>
                                                                           Enter string: 010
                                                                           Accepted
3 int check(const char *str, int start, int end) {
        if (start > end) return 1;
        if (start == end) return str[start] == '0' || str[start] == '1';
6
        if (str[start] == str[end]) return check(str, start + 1, end - 1);
8
9
10 -
   int main() {
        char str[100];
        printf("Enter string: ");
        scanf("%s", str);
14
        int len = strlen(str);
        if (check(str, 0, len - 1))
16
           printf("Accepted\n");
18
           printf("Rejected\n");
19
20 }
```

```
Output
main.c
                                                -;0;-
                                                      ح Share
                                                                    Run
   #include <stdio.h>
                                                                             Enter string: 010
   #include <string.h>
                                                                             Accepted
3 int checkA(const char *str, int i, int len) {
        for (; i < len; i++)
            if (str[i] != '1') return 0;
6
        return 1;
   }
8
   int checkS(const char *str, int start, int end) {
9
        if (start > end) return 0;
10
        if (str[start] == '0' && str[end] == '0') return checkS(str, start
            + 1, end - 1);
        return checkA(str, start, end + 1);
13 int main() {
14
        char str[100];
        printf("Enter string: ");
16
        scanf("%s", str);
17
        int len = strlen(str);
18
        if (checkS(str, 0, len - 1))
19
            printf("Accepted\n");
20
           printf("Rejected\n");
22
23
```

```
[] ×
                                                    ∝ Share
                                                                           Output
main.c
                                                                  Run
1 #include <stdio.h>
                                                                          Enter string: 0111
                                                                          Rejected
   int isValid(const char *str, int start, int end) {
        if (start > end) return 1;
        if (str[start] == '0' && str[end] == '1') return isValid(str,
6
           start + 1, end - 1);
10 - int main() {
       char str[100];
13
       scanf("%s", str);
        int len = strlen(str);
        if (isValid(str, 0, len - 1))
           printf("Accepted\n");
18
           printf("Rejected\n");
19
```

```
main.c
                                                                   Run
                                                                             Output
                                                      ≪ Share
   #include <stdio.h>
                                                                           Enter string: 1111
2 #include <string.h>
                                                                            Rejected
   int isA(const char *str, int start, int end) {
        for (int i = start; i \le end; i++) {
            if (str[i] != '0' && str[i] != '1') return 0;
6
   }
   int main() {
10
       char str[100];
11
       printf("Enter string: ");
       scanf("%s", str);
13
       int len = strlen(str);
14
        for (int i = 0; i \le len - 5; i++) {
            if (str[i + 1] == '1' && str[i + 2] == '0' && str[i + 3] ==
16
                '1') {
                if (isA(str, 0, i) && isA(str, i + 4, len - 1)) {
17
18
                    printf("Accepted\n");
19
20
21
            }
22
       printf("Rejected\n");
```