

## Pattern Matching

```
#include <stdio.h>
```

```
#include <string.h>
```

```
void search(char* text, char* pattern) {  
    int n = strlen(text);  
    int m = strlen(pattern);  
  
    for (int i = 0; i <= n - m; i++) {  
        int j;  
  
        for (j = 0; j < m; j++) {  
            if (text[i + j] != pattern[j])  
                break;  
        }  
  
        if (j == m) {  
            printf("Pattern found at index %d\n", i);  
        }  
    }  
}
```

```
int main() {  
    char text[] = "ABCABCABCABC";  
    char pattern[] = "ABC";  
    search(text, pattern);  
  
    return 0;  
}
```

## OUTPUT:

```
Pattern found at index 0  
Pattern found at index 9  
Pattern found at index 12
```

```
Process returned 0 (0x0)   execution time : 0.000 s  
Press any key to continue.
```