4.Pattern matching

```
#include <stdio.h>
#include <string.h>
void patternMatch(char text[], char pattern[]) {
  int n = strlen(text);
  int m = strlen(pattern);
  for (int i = 0; i \le 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[100], pattern[100];
  printf("Enter the text: ");
  scanf("%s", text);
  printf("Enter the pattern: ");
  scanf("%s", pattern);
  patternMatch(text, pattern);
```

```
return 0;
```

}

Output

Enter the text: cdba Enter the pattern: 1234

=== Code Execution Successful ===