```
#include <stdio.h>
#include <string.h>
#define d 256
#define q 101
int hashValue(char str[], int length, int base)
    int hash = 0,i;
    for (i = 0; i < length; i++) {
        hash = (hash * base + str[i]) % q;
   return hash;
}
void rabinKarp(char text[], char pattern[]) {
   int n = strlen(text);
   int m = strlen(pattern);
   int patternHash = hashValue(pattern, m, d);
   int textHash = hashValue(text, m, d);
   int h = 1, i;
    for (i = 0; i < m - 1; i++) {
        h = (h * d) % q;
    for (i = 0; i \le n - m; i++) {
        if (patternHash == textHash)
            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);
            }
        }
        if (i < n - m) {
            textHash = (d * (textHash - text[i] * h) + text[i + m]) % q;
            if (textHash < 0) {</pre>
                textHash = textHash + q;
            }
        }
    }
```

```
int main() {
    char text[] = "ABCCDDAEFG";
    char pattern[] = "CDD";

    rabinKarp(text, pattern);
    return 0;
}
```