

```

1  /* BruteForce.c */
2  #include <stdio.h>
3  #include <stdlib.h>
4
5  static int matchA(char *pattern, int lenP, char *text, int lenT)
6  {
7      int i = 0, j = 0;
8      while (j < lenP && i < lenT)
9      {
10         if (pattern[j] == text[i])
11         {
12             i ++;
13             j ++;
14         }
15         else
16         {
17             i -= j - 1;
18             j = 0;
19         }
20     }
21     return i - j;
22 }
23
24 static int matchB(char *pattern, int lenP, char *text, int lenT)
25 {
26     int i = 0, j;
27     for (; i < lenT - lenP + 1; i++)
28     {
29         for (j = 0; j < lenP; j++)
30         {
31             if (text[i + j] != pattern[j])
32             {
33                 break;
34             }
35         }
36         if (lenP <= j) //完全匹配
37         {
38             break;
39         }
40     }
41     return i;
42 }
43
44 int main()
45 {
46     int n, m;
47     scanf("%d", &n);
48     char *A = (char *)malloc(n + 1);
49     scanf("%s", A);
50     A[n] = '\0';
51     scanf("%d", &m);
52     char *B = (char *)malloc(m + 1);
53     scanf("%s", B);
54     B[m] = '\0';
55     int res = matchA(A, n, B, m);
56     if (res <= m - n)
57     {
58         printf("match success\n");
59     }
60     else
61     {
62         printf("match fail\n");
63     }
64     free(A);
65     free(B);
66     return 0;
67 }

```