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/*C Program to implement Brute Force String Matching
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Input: 1. Text

2. Pattern you want to search in the text

Output: 1. Location of the pattern in text - if search is successful

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2. If search is not successful -1
*/
#include <stdio.h>
#include <string.h>
int compareStrings(char [], char []);
int main() {
 char a[100], b[100];
 int position;
                   printf("\n\n Enter some text: "); SMARTER, SCORE BETTER
 gets(a);
 printf("\n\n Enter a string you want to find in this text: ");
 gets(b);
 position = compareStrings(a, b);
 if(position != -1) {
  printf("\n\ Pattern is found at location %d\n\, position + 1);
 }
 else {
  printf("\n\n Pattern does not exist in the text!\n\n");
 }
```

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return 0;
}
int compareStrings(char text[], char pattern[]) {
 int c, d, e, text_length, pattern_length, position = -1;
 text_length = strlen(text);
 pattern_length = strlen(pattern);
 if (pattern_length > text_length) {
  return -1;
 }
 for (c = 0; c <= text_length - pattern_length; c++) {
  position = e = c;
                   for (d = 0; d < pattern_length; d++) { RTER, SCORE BETTER
   if (pattern[d] == text[e]) {
    e++;
   }
   else {
    break;
   }
  }
  if (d == pattern_length) {
   return position;
  }
 }
 return -1;
}
```

Sample Input and Output:

1.

```
Enter some text: PERFECT_PROOF_LIES_ONLY_IN_MATHS

Enter a string you want to find in this text: PROOF

Pattern is found at location 9

Press any key to continue...
```

2.

```
Enter some text: PROGRAMMING_IS_EXCITING

Enter a string you want to find in this text: GRAMOPHONE

Pattern does not exist in the text!

Press any key to continue...
```