```
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   2
                      STUDENT ID
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   3
                                                                  : CS6713
                      COURSE ID
  4
                                                                  : ADV ANALYSIS OF ALGORITHMS
                      SUBJECT
  5
                      INSTRUCTOR
                                                                 : DR. Xiuzhen Huang
   6
                      PROJECT
                                                                   : Study and Implement the EXACT-APPEARANCE algorithm
   7
   8
   9
                #include<iostream>
10
                #include<cstdlib>
11
12
               using namespace std;
13
14
                int main()
15
                {
16
                  int i,j,k,temp;
17
                   char str[10][100]=
18
                   19
                   20
                   "tgagtatccctgggatgacttAAAAAAAAGGGGGGGGtgctctcccgatttttgaatatgtaggatcattcgccagggtccga", \\
21
                   "gctgagaattggatgAAAAAAAAGGGGGGGtccacgcaatcgcgaaccaacgcggacccaaaggcaagaccgataaaggaga", \verb"formula control of the control of th
22
                   "tcccttttgcggtaatgtgccgggaggctggttacgtagggaagccctaacggacttaat \texttt{AAAAAAAAGGGGGGGcttatag", result to the content of the conten
23
                   "gtcaatcatgttcttgtgaatggatttAAAAAAAAGGGGGGGgaccgcttggcgcacccaaattcagtgtgggcgagcgcaa",
                  "cggttttggcccttgttagaggcccccgtAAAAAAAAGGGGGGGCaattatgagagagctaatctatcgcgtgcgtgttcat", \\
24
                  "aacttgagttAAAAAAAAAGGGGGGGctggggcacatacaagaggagtcttccttatcagttaatgctgtatgacactatgta", \\
25
                   26
27
                  "ctqqtqaqcaacqacaqattcttacqtqcattaqctcqcttccqqqqatctaataqcacqaaqcttAAAAAAAAAGGGGGGGa"
28
29
30
                   char Motif[20]={"AAAAAAAAGGGGGGGG"};
31
                   j=0;
32
33
                   for (k=0; k<10; k++)
34
35
                                         for (i=0; str[k][i]!='\0';i++)
36
37
                                                   if(str[k][i]==Motif[j])
38
                                                      {
39
                                                                               j++;
40
                                                      }
41
                                                      else if(str[k][i]!=Motif[j]&& Motif[j]!='\0')
42
43
                                                                                j=0;
                                                                                temp=0;
44
45
                                                      else if(Motif[j]=='\0')
46
47
48
                                                                                temp=1;
                                                                               cout<<"The EXACT APPEARANCE of Motif is present in given string "
49
                                                                               <<k+1<<" at position "<<(i+1)-j<<"\n";
                                                                               str[k][i+1]=' 0';
50
51
                                                                                j=0;
52
                                                      }
53
                                                      else
54
                                                       {
55
                                                      }
56
                                         }
57
                                         if(temp!=1)
58
                                          {
                                                      cout<<"No exact appearance of a common motif "<<"in string "<<k+1<<"\n";</pre>
59
60
                                          }
61
                            }
62
63
                   return 0;
64
                1
```