TRANSPOSITION CIPHER

```
#include <iostream>
#include <string.h>
using namespace std;
int main()
{
        char str1[100],str2[100];
         int ln=0;
        int arr[20];
        cout << "\n Enter String(without space) : ";</pre>
        cin >> str1;
         In = strlen(str1);
        str1[ln + 1] = '\0';
         int n;
        cout<<"\nEnter the no. of key characters:";</pre>
         cin>>n;
        cout << "\n Enter key: ";</pre>
        for(int i=0;i<n;i++)</pre>
  cin>>arr[i];
  int iLen = n;
  int cnt = 0;
// Encryption
        for (int z = 0; z < iLen; z++)
        {
                 for (int x = 0; x \le (\ln/2)-1; x++)
                 {
```

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if ((arr[z] + iLen * x) \le ln)
                          {
                                  str2[cnt++] = str1[(arr[z] + iLen * x) - 1];
                          }
                 }
        }
        str2[ln] = '\0';
        int nl = 1;
        for (int i = 0; i < iLen; i++)
                 cout << arr[i] << " ";
        cout << " \backslash n -----";
        cout << "\n";
        for (int i = 0; i < ln; i++)
        {
                 if (i == iLen * nl)
                 {
                          cout << "\n" << str1[i] << " ";
                          nl++;
                 }
                 else
                          cout << str1[i] << " ";
        }
        cout << "\n\n" << "Encrypted String : " << str2;</pre>
// Decryption
        cout << "\n";
        char strtmp[100];
```

Enter String(without space): delhicollegeofengineering
Enter the no. of key characters:3
Enter key: 3 1 2
312
d e l
hic
011
e g e
ofe
n g i
n e e
rin
g

Encrypted String: Icleeiendhoeonnrgeilgfgei

Decrypted String: delhicollegeofengineering

OUTPUT-