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Q2 Ay

```c
#include <stdio.h>
#include <string.h>
#include <ctype.h>

int main()
{
    int i, j, len1, len2, numstr[100], numbkey[100], numcipher[100];
    char str[100], key[100], cipher[100];
    printf("enter a string text to encrypt \n");
    gets(str);
    for (i=0; j=0; i<strlen(str); i++)
    {
        if (str[i] != ' ')
        {
            str[j] = toupper(str[i]);
            j++;
        }
    }
    str[j] = '\0';
    for(i=0; i<strlen(str); i++)
    {
        numStr[i] = str[i] - 'A';
    }
    printf(" enter key string of random text\n");
    gets(key);
```

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```
for(i=0; j=0; i<strlen(key); i++)
{
    if(key[i]!= ' ')
    {
        key[j]= toupper(key[i]);
        j++;
    }

    key[j]= '\0';

    for (i=0; i<strlen(key); i++)
    {
        numbkey[i] = key[i] -'A';
    }

    for(i=0; i<strlen(str); i++)
    {
        numcipher[i]= numstr[i] + numbkey[i];
    }

    for (i=0; i< strlen(str); i++)
    {
        if (numcipher[i] > 25)
        {
            numcipher[i] = numcipher[i]-26;
        }
    }

    printf(" One time pad cipher text is \n");
    for(i= 0; i< strlen(str); i++)
```
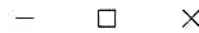
```
{
Printf(" %C", (numcipher[i]+ 'A'));
}
Printf(" \n");
}
```

```
Enter a string text to encrypt
one time pad
Enter key string of random text
perfect
One Time Pad Cipher text is
DRVYMOXPrD

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Process exited after 69.02 seconds with return value 0
Press any key to continue . . .
```