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### Q4 → Implement OTP

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

void main()
{
    int i, j, len1, len2, numster[100], numkey[100],
        numcipher[100];
    char ster[100], key[100], cipher[100];
    printf("Enter a string text to encrypt");
    get(ster);
    for (i = 0; i < strlen(ster); i++)
    {
        if (ster[i] != '\0')
        {
            ster[i] = toupper(ster[i]);
            i++;
        }
    }
```

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```

str [0] = '\0';
for (i=0; i < strlen(str); i++)
{
    numstr[i] = str[i] - 'A';
}
printf("Enter key string of random text");
get(key);
for (i=0; j=0; i < strlen(key); i++)
{
    if (key[i] != '\0')
    {
        key[j] = toupper(key[i]);
        j++;
    }
}
key[j] = '\0';
for (i=0; i < strlen(key); i++)
{
    numkey[i] = key[i] - 'A';
}
for (i=0; i < strlen(str); i++)
{
    numcipher[i] = numstr[i] + numkey[i];
}

```



```
for (i = 0; i < strlen(str); i++)
```

```
{  
    if (numcipher[i] > 25)
```

```
{  
    numcipher[i] = numcipher[i] - 26;
```

```
}
```

```
}
```

```
printf("one time password ciphertext is: \n");
```

```
for (i = 0; i < strlen(str); i++)
```

```
{
```

```
    printf("%c", (numcipher[i] + 'A'));
```

```
}
```

```
    printf("\n");
```

```
}
```

Yash