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~~Q2~~ Q2} Implement OTP.

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

main()

{

```
int i, j, len1, len2, numsta[100], numkey[100], numcipher[100];
```

```
char sta[100], key[100], cipher[100];
```

```
printf("Enter a string text to encrypt\n");
```

```
gets(sta);
```

```
for (i=0; j=0; i<strlen(sta); i++)
```

```
{ if (sta[i] != '\0')
```

```
{ sta[j] = toupper(sta[i]);
```

```
j++;
```

```
}
```

```
}
```

```
sta[j] = '\0';
```

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

```
{ numsta[i] = sta[i] - 'A';
```

```
}
```

```
printf("Enter the key string");
```

```
get(key)
```

```
for (i=0; j=0; i<strlen(key); i++)
```

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```

{ if (key[i] != '')
{
    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(stu); i++)
{
    numcipher[i] = numsta[i] + numkey[i];
}
for (i=0; i < strlen(stu); i++)
{
    if (numcipher[i] > 25)
    {
        numcipher[i] = numcipher[i] - 26;
    }
}
printf("One Time pad cipher text ");
for (i=0; i < strlen(stu); i++)
{
    printf("%c", (numcipher[i] + 'A'));
}
printf("\n");
}

```

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