



Lesson 6: String

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fgets

◆ Input ABCD

A	B	C	D	\n	\0
---	---	---	---	----	----

◆ Input ABCDE or ABCDEFG

A	B	C	D	E	\0
---	---	---	---	---	----

```
char str[6];  
int len;  
fgets(str, sizeof(str), stdin);  
len=strlen(str);  
if (str[len-1]=='\n')  
    str[len-1]='\n';
```

strcmp

◆ ASCII Code

- 0~9: 0x30~0x39 (48~57 in decimal)
- A~Z: 0x41~0x5A (65~90 in decimal)
- a~z: 0x61~0x7A (97~122 in decimal)



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

```
int main(void)
```

```
{
```

```
    printf("%d\n", strcmp("ABC", "abc"));
```

```
    printf("%d\n", strcmp("aBc", "abC"));
```

```
    printf("%d\n", strcmp("abc", "abcd"));
```

```
    return 0;
```

```
}
```

-1
-1
-1

remind.c

◆ User input

5 6:00 - Dinner with Marge and Russ

scanf("%2d", &day); read_line(msg_str, MSG_LEN);

day 5

sprintf(day_str, "%2d", day);

day_str " 5"

msg_str " 6:00..."

```
for (i = 0; i < num_remind; i++)  
    if (strcmp(day_str, reminders[i]) < 0)  
        break;
```

num_remind 1

i 0

24 Susan's birthday
...
...

ASCII Code:

Space: 0x20

2: 0x32

```
for (j = num_remind; j > i; j--)  
    strcpy(reminders[j], reminders[j-1])
```

num_remind

1

i

0

24 Susan's birthday

24 Susan's birthday

...

```
strcpy(reminders[i], day_str);  
strcat(reminders[i], msg_str);
```

num_remind	1	5 6:00 - Dinner...
i	0	24 Susan's birthday
day_str	" 5"	...
msg_str	" 6:00..."	