

lec6-char-string-malloc

April 6, 2018

1 Lecture 6: Pointers, Character Array, String, Malloc

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1.0.1 Swap two variables

```
In [17]: #include <stdio.h>
        void swap(int* x, int* y){
            int tmp = *x;
            *x = *y;
            *y = tmp;
        }

        int main(){
            int x = 2, y = 3;
            printf("x: %d, y: %d\n", x, y);
            swap(&x, &y);
            printf("x: %d, y: %d\n", x, y);
        }
```

x: 2, y: 3

x: 3, y: 2

1.0.2 Types

Types specify two things: the size and the interpretation of the numbers.

Relevant Type	size
char	1 byte
int	2 or 4 bytes
long	4 bytes
float	4 bytes
double	8 bytes