

# Returning Pointers

## Finding the mid of the Array

```
int main() {
```

```
    int a[] = {1, 2, 3, 4, 5};
```

```
    int n = sizeof(a) / sizeof(a[0]);
```

```
    int *mid = findmid(a, n);
```

```
    print("%d", *mid);
```

```
    return 0;
```

```
}
```

\*mid will get the address of the value  
it needed to access  
store

```
void findmid(int a[], int n) {
```

```
    return &a[n/2];
```

```
}
```

→ return the address of a[n/2] location

Important thing to notice  
as returned value  
is pointer  
So, the function must be pointer

\*Never Try to return the address of an automatic variable / local variable.

```
int *fun() {
    int i = 10;
    return &i;
}
```

```
int main() {
    int *p = fun();
    printf("%d", *p);
}
```

fun() will destroy so the i will destroy too.

WARNING: Function Return Address of Local Variable