

32-bit Address

Variable

Main memory

0
1
2
⋮
15
⋮

x

p

main
7
⋮
address to int x that is 2

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

```
int main(void) {
```

① `int x = 7;` data type of x is int

② `int *p;` data type of p is int*

③ `p = &x;` p is assigned the address of x

```
return 0;
```

```
}
```

Reference operator: this means “address of”
Recall its usage in scanf