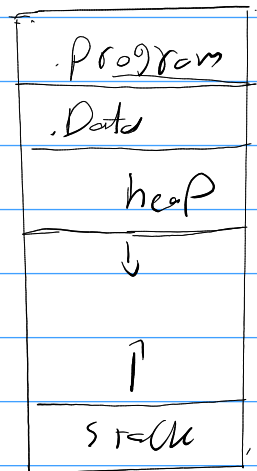


C#2

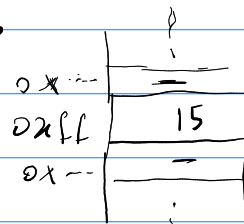
func → {
 datatype var_name = val; } → Stack
 } → pop()



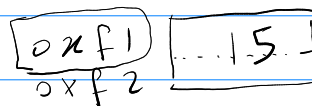
Pointers

short int x = 15

int z = 15

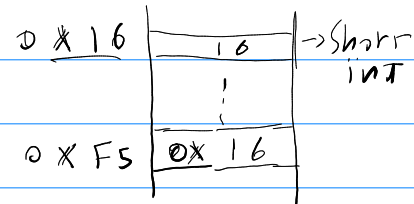


type < var_name = val;



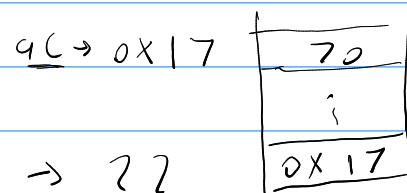
short int ab = 16;

short int* ptr = &ab;



int ac = 70;

int* ptr2 = ∾



*ptr2 → ??

*ptr2 → printf("x.d\n", *ptr2); → 70.0\n
 *ptr2 = 50
 printf("x.d\n", ac); → 50.0\n

Pointers OP

short int x = 15

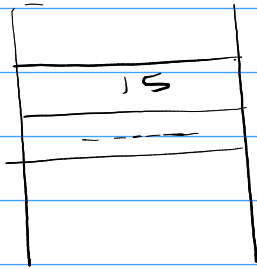
short int *PTR = &x;

PTR += 1;

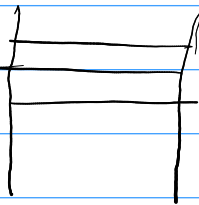
PTR = 0xf2

x → 0xf1

0xf2



PTR
0xf1
0xf2

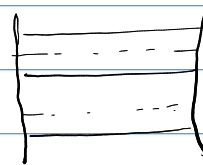


short int

PTR

[0xf1

PTR = 0xf3



2 row] → int

int
short

* PTR →
↳ 2 row
code

row



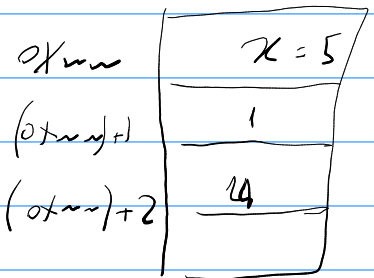
16

int x = 5

int *PTR = &x;

* (PTR + 1) = 1;

* (PTR + 2) = 4;



int arr [3] = { 5, 1, 4 }

* (arr + 1) ← 1

arr [1] ← 1

* (arr + 2) ← 4

arr [2] ← 4

* (arr) ← 5

arr [0] ← 5

PTR [0] ← 5

|||

* (PTR + 0) ← 5

* (PTR) ← 5

PTR [1] ← 1

|||

* (PTR + 1) ← 1

PTR [2] ← 4

|||

* (PTR + 2) ← 4

(void *)

int* ptr

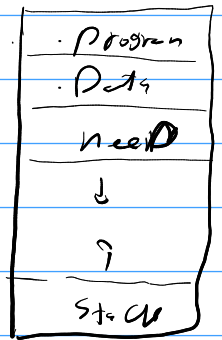
0xFF0

8



malloc
(void *)

1- runtime memory management



2- function generating of memory

3- Stack < heap

ptr ← malloc (size) → free(ptr)

There is no garbage collector in C] manually