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Play with the code 🔒 locked

Problem	Submissions	Leaderboard	Discussions

NOTE: No submission is required for this problem

Understand the code, make changes, run it and try to learn how it works.

Run this code three times and observe the output.

Also observe how address of variable is different everytime you run the code.

Input Format

Run with custom input - No input required

Constraints

no constraints

Output Format

custom output

Submissions: 65
Max Score: 10
Difficulty: Easy

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C ⌄

```c
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main()
{
    int number = 5, *pntr;

    // storing address of variable number into integer pointer named pntr
    pntr = &number;

    printf("number = %d\n", number);
    // please note that this statement will print address of number
    printf("address of number = %p\n", (void *)&number);
    // this statement will print same address as printed in previous line
    printf("address stored in pntr = %p\n", (void *)pntr);
    // this statement will print value stored in variable pointed by pntr (number)
    printf("value at address pointed by pntr = %d\n", *pntr);

    number = 7;

    printf("\nAfter changing value of number to 7\n");
    printf("number = %d\n", number);
```

```
25       // please note that changing value of number does not chage its address
26       printf("address of number = %p\n", (void *)&number);
27       // this statement will print same address as printed in previous line
28       printf("address stored in pntr = %p\n", (void *)pntr);
29       // this statement will print value stored in variable pointed by pntr (number)
30       // This will print new value of number not the old
31       printf("value at address pointed by pntr = %d\n", *pntr);
32
33       return 0;
34   }
```

Line: 1 Col: 1

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