C_145 ⇒ **Solved Problems on Storage Classes in C**

Technical Interview Questions

Question ①

```c
# include <stdio.h>
int a;
int main()
{
    printf(" a = %d ", a);    ⇒ 0
    return 0;
}
```

Ⓐⓧ ### Question ②

```c
# include <stdio.h>
int fun()
{
    static int num = 16;
    return num--;
}

int main()
{
    for( fun(); fun(); fun())
    
    printf(" %d", fun());    ⇒ ⑭ ⑪ ⑧ ⑤ ②
    return 0;
}
```
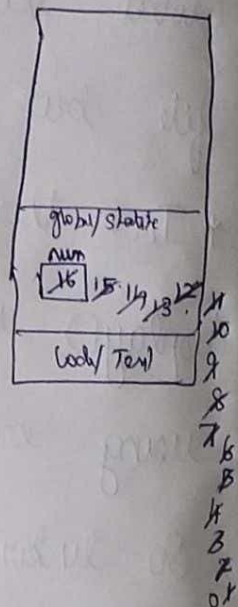
→ true ⟶ if ≠ 0 false

16   16 12 9 6 3 0
                    13 10 7 4 1

global/static
num
16 15 14 13 12   11
                  10
                  9
code/Text   8
                  7 6
                  5
                  4 3
                  2
                  0 ⨯

```
%p  14  11  8  5  2
```

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```c
#include <stdio.h>
#include <stdlib.h>
/** 45 - Problems in Storage Classes **/
int a;
int main()
{
printf("%d",a);
return 0;
}
```

Logs & others

Code::Blocks | Search results | Cccc | Build log | Build messages | CppCheck/Vera++ | CppCheck/Vera++ messages | Cscop
LECTURE_MISCELLANEOUS TOPICS\45_Problems in Storage Classes\bin\Debug\45_Problems in Storage Classes.exe" (in D:\1. C
C++NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11_JENNYS LECTURE_MISCELLANEOUS TOPICS\45_Problems in Storage Classes\.)
Process terminated with status 0 (0 minute(s), 23 second(s))

D:\1. C C++NOTEBOOK\C LANGUAGE\C Jennys Le...   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 8, Col 10, Pos 132   Insert   Read/Write   default   6:13 PM

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```c
#include <stdio.h>
#include <stdlib.h>
/** 46 - Problems in Storage Classes **/
int fun()
{
  static int num=16;
  return num--;
}
int main()
{
for(fun();fun();fun())
{
  printf("%d\n",fun());
}
return 0;
}
```

Logs & others

Code::Blocks | Search results | Cccc | Build log | Build messages | CppCheck/Vera++ | CppCheck/Vera++ messages | Cscop
\npm;C:\Users\admin\.dotnet\tools;C:\Cuda;C:\Cuda\bin;C:\Users\admin\AppData\Local\Programs\Microsoft VS Code\bin
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "D:\1. C C++NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11_JENNYS
LECTURE_MISCELLANEOUS TOPICS\46_Problmes in Storage Classes\bin\Debug\46_Problmes in Storage Classes.exe" (in D:\1. C
C++NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11_JENNYS LECTURE_MISCELLANEOUS TOPICS\46_Problmes in Storage Classes\.)

D:\1. C C++NOTEBOOK\C LANGUAGE\C Jennys Le...   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 15, Col 10, Pos 215   Insert   Read/Write   default   6:16 PM

"D:\1. C C++NOTEBOOK\C LANGUAGE\C Jennys Lectures\PART 11_JENNYS LECTURE_MISCELLANEOUS TOPICS\46_Problmes i...

```
14
11
8
5
2

Process returned 0 (0x0)   execution time : 0.043 s
Press any key to continue.
```