## **C** Programming Questions and Answers – Declarations – 1

This section on C interview questions and answers focuses on "Declarations". One shall practice these interview questions to improve their C programming skills needed for various interviews (campus interviews, walkin interviews, company interviews), placements, entrance exams and other competitive exams. These questions can be attempted by anyone focusing on learning C Programming language. They can be a beginner, fresher, engineering graduate or an experienced IT professional. Our C Interview questions come with detailed explanation of the answers which helps in better understanding of C concepts.

Here is a listing of C interview questions on "Declarations" along with answers, explanations and/or solutions:



const int i = 10;

printf("%d ", i);

foo(&i);

printf("%d", i);



2. Comment on the output of this C code?

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

int main()

{

const int i = 10;



- }
- a) Compile time error
- b) Compile time warning and printf displays 20
- c) Undefined behaviour
- d) 10

View Answer

Answer:b

Explanation: Changing const variable through non-constant pointers invokes compiler warning

Output:

\$ cc pgm2.c

pgm2.c: In function 'main':

pgm2.c:5: warning: initialization discards qualifiers from pointer target type

\$ a.out

20

3. What is the output of this C code?



d) 0

**View Answer** 

Answer:c

Explanation:Variable j is not defined.

Output:

\$ cc pgm3.c

pgm3.c: In function 'main':

pgm3.c:4: error: 'j' undeclared (first use in this function)

pgm3.c:4: error: (Each undeclared identifier is reported only once

pgm3.c:4: error: for each function it appears in.)

4. Does this compile without error?



{

for (int k = 0; k < 10; k++);

return 0;

}

a) Yes

b) No

c) Depends on the C standard implemented by compilers

d) None of the mentioned

View Answer

Answer:c

Explanation: Compilers implementing C90 does not allow this but compilers implementing C99 allow it.

Output:

\$ cc pgm4.c

pgm4.c: In function 'main':

pgm4.c:4: error: 'for' loop initial declarations are only allowed in C99 mode

pgm4.c:4: note: use option -std=c99 or -std=gnu99 to compile your code

5. Does this compile without error?

int k; {

int k;

```
for (k = 0; k < 10; k++);
              }
         }
a) Yes
b) No
c) Depends on the compiler
d) Depends on the C standard implemented by compilers
View Answer
Answer:a
Explanation: There can be blocks inside block and within blocks variables have only block scope.
Output:
$ cc pgm5.c
6. Which of the following declaration is not supported by C?
a) String str;
b) char *str;
c) float str = 3e2;
d) Both (a) and (c)
View Answer
Answer:a
Explanation: It is legal in Java, not in C.
```



Explanation:%c can be used to print the indexed position. %d can still be used to display its ASCII value. %s is recommended.

%f cannot be used.