

Question-1

Open



temp.c



A1_Q1.sh



```
#!/bin/bash
# shivam 's script
VAR=$(date "+%H") # used to fetch the hour from the Date and Time Format
VAR1=12;
VAR2=16;

if [ $VAR -lt $VAR1 ]
then
echo "Good Morning";
elif [ $VAR -lt $VAR2 ]
then
echo "Good Afternoon"
else
echo "Good Evening";
fi
```





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shivam@shivam-VirtualBox:~/Desktop\$ bash A1_Q1.sh

Good Afternoon

shivam@shivam-VirtualBox:~/Desktop\$



Type here to search



Question-2



#! /bin/bash

shivam 's script

if [-d \$1] # to check if such directory exist or not

then

if [-r \$1] # to check the readability of directory

then

ls \$1 | wc -l # list no.of files in directory

else

echo "Error-code 3 : Not Readable ";

fi

else

echo "Error-code 2 : Does Not Name A Directory";

fi

if ["\$2" != ""] # if second argument is passed or not

then

cd \$1

ls *.\$2 | wc -l; # Applying filter as provided in input

fi

if ["\$3" != ""] # more than 2 parameter result in error

then

echo "Error-code 1 : wrong number of command line parameters";

fi





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shivam@shivam-VirtualBox:~/Desktop\$ bash A1_Q2.sh /home/shivam/Desktop/

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shivam@shivam-VirtualBox:~/Desktop\$ █





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shivam@shivam-VirtualBox:~/Desktop\$ ls | wc-l

wc-l: command not found

shivam@shivam-VirtualBox:~/Desktop\$ ls | wc -l

26

shivam@shivam-VirtualBox:~/Desktop\$ ls *.txt | wc -l

4

shivam@shivam-VirtualBox:~/Desktop\$ bash A1_Q2.sh /home/shivam/Desktop txt

26

4

shivam@shivam-VirtualBox:~/Desktop\$





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shivam@shivam-VirtualBox:~/Desktop\$ bash A1_Q2.sh /home/shivam/Desktop/Temp

Error-code 2 : Does Not Name A Directory

shivam@shivam-VirtualBox:~/Desktop\$ ls

```
a100      A1_Q2.sh  A1_Q4.cpp  cat      dir      error.txt  filehj  first.c    myFirstDirectory  sec.c  t1.txt  tem      temp.sh  
A1_Q1.sh  A1_Q3.c  a.out      count.txt  error    fileh     filej   fruit.txt  sample.sh  sec.o  te      temp.c  test
```

shivam@shivam-VirtualBox:~/Desktop\$ █





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shivam@shivam-VirtualBox:~/Desktop\$ bash A1_Q2.sh /home/shivam/Desktop/ txt abc

26

4

Error-code 1 : wrong number of command line parameters

shivam@shivam-VirtualBox:~/Desktop\$ █



Question-3

Part-1

Open

```
#include <stdio.h>
#include "string.h"
int main(int argc, char* argv[]) {
int i, j, k;
int *p;
int arr[500];
char *str;
for(j = 1; j <= 5000; ++j){
arr[j] = j;
printf("%d", *p);
}
str="System";
modifyString(str);
printf("Enter integer in 0..4999: ");
scanf("%d", k);
foo(arr, k);
}
int foo(int* c, int k) {
printf("x[%d] = %d\n", k, c[k]);
}
void modifyString(char *s){
*(s+3) = 'k';
}
```



File Edit View Search Terminal Help

temp.c

```
2 #include "string.h"
3 int main(int argc, char* argv[]) {
4     int i, j, k;
5     int *p;
6     int arr[500];
7     char *str;
8     for(j = 1; j <= 5000; ++j){
9         arr[j] = j;
10        printf("%d", *p);
11    }
12    str="System";
13    modifyString(str);
14    printf("Enter integer in 0..4999: ");
15    scanf("%d", k);
16    foo(arr, k);
17 }
18 int foo(int* c, int k) {
19     printf("x[%d] = %d\n", k, c[k]);
20 }
```

```
native process 4022 In: main
(gdb) which
Undefined command: "which". Try "help".
(gdb) where
#0 0x000055555554769 in main (argc=1, argv=0x7fffffff068) at temp.c:10
(gdb) █
```



Type here to search





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```
A1_Q3.c:16:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
    scanf("%d", k);
           ^~
```

```
A1_Q3.c:17:1: warning: implicit declaration of function 'foo' [-Wimplicit-function-declaration]
    foo(arr, k);
           ^~~
```

A1_Q3.c: At top level:

```
A1_Q3.c:22:6: warning: conflicting types for 'modifyString'
void modifyString(char *s){
           ^~~~~~
```

```
A1_Q3.c:14:1: note: previous implicit declaration of 'modifyString' was here
    modifyString(str);
           ^~~~~~
```

```
shivam@shivam-VirtualBox:~/Desktop$ gdb test
GNU gdb (Ubuntu 8.1-0ubuntu3.2) 8.1.0.20180409-git
```

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Find the GDB manual and other documentation resources online at:

<<http://www.gnu.org/software/gdb/documentation/>>.

For help, type "help".

Type "apropos word" to search for commands related to "word"...

Reading symbols from test...done.

(gdb) break 11

Breakpoint 1 at 0x76c: file A1_Q3.c, line 11.

(gdb) r

Starting program: /home/shivam/Desktop/test

```
Breakpoint 1, main (argc=1, argv=0x7fffffff078) at A1_Q3.c:11
11      printf("%d",*p);
```

(gdb) print *p

Cannot access memory at address 0x38004000000000

(gdb)



```
#include <stdio.h>
#include "string.h"
int main(int argc, char* argv[]) {
int i, j, k;
i=5;
int *p = &i; // earlier point p was not pointing to any of the address so gdb shows error
int arr[500]; // As a part of debugging pointer p is assigned a valid address to solve segmentation fault
char *str;
for(j = 1; j <= 5000; ++j){
arr[j] = j;
printf("%d", *p);
}
str="System";
modifyString(str);
printf("Enter integer in 0..4999: ");
scanf("%d", k);
foo(arr, k);
}
int foo(int* c, int k) {
printf("x[%d] = %d\n", k, c[k]);
}
void modifyString(char *s){
*(s+3) = 'k';
}
```





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temp.c

```
2 #include "string.h"
3 int main(int argc, char* argv[]) {
4     int i, j, k;
5     i=5;
6     int *p =&i;
7     int arr[500];
8     char *str;
9     for(j = 1; j <= 5000; ++j){
10        arr[j] = j;
11        //printf("%d",*p);
12    }
13    str="System";
14    modifyString(str);
15    printf("Enter integer in 0..4999: ");
16    scanf("%d", k);
17    foo(arr, k);
18 }
19 int foo(int* c, int k) {
20     printf("x[%d] = %d\n", k, c[k]);
```

```
native process 4049 In: main
(gdb) where
#0 0x0000555555554773 in main (argc=1, argv=0x7fffffff068) at temp.c:10
(gdb)
```



Type here to search



```
#include <stdio.h>
#include "string.h"
int main(int argc, char* argv[]) {
int i, j, k;
i=5;
int *p = &i; // earlier point p was not pointing to any of the address so gdb shows error
int arr[500]; // As a part of debugging pointer p is assigned a valid address to solve segmentation fault
char *str;
for(j = 1; j < 500; ++j){ // Array index was out of bound here earlier it was 5000 now changed to 500
arr[j] = j;
//printf("%d",*p);
}
str="System";
modifyString(str);
printf("Enter integer in 0..4999: ");
scanf("%d", k);
foo(arr, k);
}
int foo(int* c, int k) {
printf("x[%d] = %d\n", k, c[k]);
}
void modifyString(char *s){
*(s+3) = 'k';
}
```





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temp.c

```
15     printf("Enter integer in 0..4999: ");
16     scanf("%d", k);
17     foo(arr, k);
18 }
19 int foo(int* c, int k) {
20     printf("x[%d] = %d\n", k, c[k]);
21 }
22 void modifyString(char *s){
23     *(s+3) = 'k';
24 }
```

```
native process 4065 In: modifyString
(gdb) where
#0  0x000055555555485e in modifyString (s=0x5555555548f4 "System") at temp.c:23
#1  0x00005555555547af in main (argc=1, argv=0x7fffffff068) at temp.c:14
(gdb) 
```



```
1 Q3.c
#include <stdio.h>
#include "string.h"
int main(int argc, char* argv[]) {
int i, j, k;
i=5;
int *p = &i; // earlier point p was not pointing to any of the address so gdb shows error
int arr[500]; // As a part of debugging pointer p is assigned a valid address to solve segmentation fault
char *str;
for(j = 1; j < 500; ++j){ // Array index was out of bound here earlier it was 5000 now changed to 500
arr[j] = j;
//printf("%d",*p);
}
str="System";
modifyString(str);
printf("Enter integer in 0..4999: ");
scanf("%d", k);
foo(arr, k);
}
int foo(int* c, int k) {
printf("x[%d] = %d\n", k, c[k]);
}
void modifyString(char *s){
*(s+3) = 'k';
}
```

```
native process 2086 In: modifyString
(gdb) where
#0 0x00005555555485e in modifyString (s=0x555555548f4 "System") at A1_Q3.c:2
#1 0x0000555555547af in main (argc=1, argv=0x7fffffff078) at A1_Q3.c:14
(gdb) print *
$1 = 83 'S'
(gdb) print s
$2 = 0x555555548f4 "System"
(gdb) print s[0]
$3 = 83 'S'
(gdb) print s[1]
$4 = 121 'y'
(gdb) print s[3]
$5 = 116 't'
(gdb)
```

Open

```
#include <stdio.h>
#include "string.h"
int main(int argc, char* argv[]) {
int i, j, k;
i=5;
int *p = &i; // earlier point p was not pointing to any of the address so gdb shows error
int arr[500]; // As a part of debugging pointer p is assigned a valid address to solve segmentation fault
char *str;
for(j = 1; j < 500; ++j){ // Array index was out of bound here earlier it was 5000 now changed to 500
arr[j] = j;
//printf("%d",*p);
}
str="System";
modifyString(str);
printf("Enter integer in 0..4999: ");
scanf("%d", k);
foo(arr, k);
}
int foo(int* c, int k) {
printf("x[%d] = %d\n", k, c[k]);
}
void modifyString(char *s){
*(s+3) = 'k'; // Trying to modify String constant is illegal
}
```



#include <stdio.h>

#include "string.h"

int main(int argc, char* argv[]) {

int i, j, k;

i=5;

int *p = &i; // earlier point p was not pointing to any of the address so gdb shows error

int arr[500]; // As a part of debugging pointer p is assigned a valid address to solve segmentation fault

char *str;

for(j = 1; j < 500; ++j){ // Array index was out of bound here earlier it was 5000 now changed to 500

arr[j] = j;

//printf("%d",*p);

}

str="System";

modifyString(str);

printf("Enter integer in 0..4999: ");

scanf("%d", k);

foo(arr, k);

}

int foo(int* c, int k) {

printf("x[%d] = %d\n", k, c[k]);

}

void modifyString(char *s){

*(s+3) = 'k'; // Trying to modify String constant is illegal

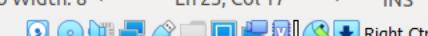
}



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C Tab Width: 8 Ln 23, Col 17 INS



08:55

10-08-2020

^ F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 ENG



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Starting program: /home/shivam/Desktop/test

Program received signal SIGSEGV, Segmentation fault.
0x000055555555485e in modifyString (s=0x555555548f4 "System") at A1_Q3.c:2323 * (s+3) = 'k';
(gdb) layout next
shivam@shivam-VirtualBox:~/Desktop\$ gcc A1_Q3.c -g -o testA1_Q3.c: In function 'main':
A1_Q3.c:14:1: warning: implicit declaration of function 'modifyString' [-Wimplicit-function-declaration]
modifyString(str);
^~~~~~A1_Q3.c:16:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]
scanf("%d", k);
^~A1_Q3.c:17:1: warning: implicit declaration of function 'foo' [-Wimplicit-function-declaration]
foo(arr, k);
^~~

A1_Q3.c: At top level:

A1_Q3.c:22:6: warning: conflicting types for 'modifyString'
void modifyString(char *s){
^~~~~~A1_Q3.c:14:1: note: previous implicit declaration of 'modifyString' was here
modifyString(str);
^~~~~~shivam@shivam-VirtualBox:~/Desktop\$ gdb test
GNU gdb (Ubuntu 8.1-0ubuntu3.2) 8.1.0.20180409-git

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<<http://www.gnu.org/software/gdb/documentation/>>.

For help, type "help".

Type "apropos word" to search for commands related to "word"...

Reading symbols from test...done.

(gdb) r

Starting program: /home/shivam/Desktop/test

Enter integer in 0..4999: 5

Program received signal SIGSEGV, Segmentation fault.

0x00007ffff7a53932 in _IO_vfscanf_internal (s=<optimized out>, format=<optimized out>, argptr=argptr@entry=0x7fffffff6a0, errp=errp@entry=0x0) at vfscanf.c:1898
1898 vfscanf.c: No such file or directory.

(gdb) █



```
File Edit View Search Terminal Help
A1_Q3.c:14:1: note: previous implicit declaration of 'modifyString' was here
modifyString(str);
^~~~~~
shivam@shivam-VirtualBox:~/Desktop$ gdb test
GNU gdb (Ubuntu 8.1-0ubuntu3.2) 8.1.0.20180409-git
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For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
<http://www.gnu.org/software/gdb/documentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from test...done.
(gdb) list 10,20
10     arr[j] = j;
11     //printf("%d",*p);
12 }
13 str="System";
14 modifyString(str);
15 printf("Enter integer in 0..4999: ");
16 scanf("%d", k);
17 foo(arr, k);
18 }
19 int foo(int* c, int k) {
20     printf("x[%d] = %d\n", k, c[k]);
(gdb) break 16
Breakpoint 1 at 0x7c0: file A1_Q3.c, line 16.
(gdb) r
starting program: /home/shivam/Desktop/test

Breakpoint 1, main (argc=1, argv=0x7fffffff078) at A1_Q3.c:16
16     scanf("%d", k);
(gdb) print k
$1 = 0
(gdb) continue
Continuing.
Enter integer in 0..4999: 5

Program received signal SIGSEGV, Segmentation fault.
0x00007ffff7a53932 in _IO_vfscanf_internal (s=<optimized out>, format=<optimized out>, argptr=argptr@entry=0x7fffffff078, errp=errp@entry=0x0) at vfscanf.c:1898
1898     vfscanf.c: No such file or directory.
(gdb) 
```



Type here to search



Open

```
#include <stdio.h>
#include "string.h"
int main(int argc, char* argv[]) {
int i, j, k;
i=5;
int *p = &i; // earlier point p was not pointing to any of the address so gdb shows error
int arr[500]; // As a part of debugging pointer p is assigned a valid address to solve segmentation fault
char *str;
for(j = 1; j < 500; ++j){ // Array index was out of bound here earlier it was 5000 now changed to 500
arr[j] = j;
//printf("%d",*p);
}
str="System";
modifyString(str);
printf("Enter integer in 0..4999: ");
scanf("%d", &k); // earlier scanning without & leads to segmentation fault
foo(arr, k);
}
int foo(int* c, int k) {
printf("x[%d] = %d\n", k, c[k]);
}
void modifyString(char *s){
//*(s+3) = 'k'; // Trying to modify String constant is illegal
}
```



Type here to search



If some one by mistake enter value K that is out of bound for array

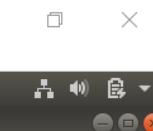
Ubuntu [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Terminal

Mon 09:08

shivam@shivam-VirtualBox: ~/Desktop



File Edit View Search Terminal Help

Inferior 1 [process 2155] will be killed.

```
Quit anyway? (y or n) y
shivam@shivam-VirtualBox:~/Desktop$ gcc A1_Q3.c -g -o test
A1_Q3.c: In function 'main':
A1_Q3.c:14:1: warning: implicit declaration of function 'modifyString' [-Wimplicit-function-declaration]
    modifyString(str);
    ^
A1_Q3.c:17:1: warning: implicit declaration of function 'foo' [-Wimplicit-function-declaration]
    foo(arr, k);
    ^
A1_Q3.c: At top level:
A1_Q3.c:22:6: warning: conflicting types for 'modifyString'
    void modifyString(char *s){
    ^
A1_Q3.c:14:1: note: previous implicit declaration of 'modifyString' was here
    modifyString(str);
    ^
shivam@shivam-VirtualBox:~/Desktop$ gdb test
GNU gdb (Ubuntu 8.1-0ubuntu3.2) 8.1.0.20180409-git
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<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
<http://www.gnu.org/software/gdb/documentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from test...done.
(gdb) r
Starting program: /home/shivam/Desktop/test
Enter integer in 0..4999: 5
x[5] = 5
[Inferior 1 (process 2172) exited normally]
(gdb) r
Starting program: /home/shivam/Desktop/test
Enter integer in 0..4999: 5000

Program received signal SIGSEGV, Segmentation fault.
0x0000055555554835 in foo (c=0x7fffffff7b0, k=5000) at A1_Q3.c:20
20     printf("x[%d] = %d\n", k, c[k]);
(gdb)
```



Type here to search



```
File Edit View Search Terminal Help
Starting program: /home/shivam/Desktop/test
Enter integer in 0..4999: 5000
Program received signal SIGSEGV, Segmentation fault.
0x000055555554835 in foo (c=0x7fffffff7b0, k=5000) at A1_Q3.c:20
20      use segmentation fault
(gdb) q
A debugging session is active.

      Inferior 1 [process 2186] will be killed.

Quit anyway? (y or n) y
shivam@shivam-VirtualBox:~/Desktop$ gcc A1_Q3.c -g -o test
A1_Q3.c: In function 'main':
A1_Q3.c:14:1: warning: implicit declaration of function 'modifyString' [-Wimplicit-function-declaration]
  modifyString(str);
^~~~~~
A1_Q3.c:17:11: warning: implicit declaration of function 'foo' [-Wimplicit-function-declaration]
 if(k<5000)foo(arr, k); // value > 4999 cause segmentation fault
^~~
A1_Q3.c: At top level:
A1_Q3.c:23:6: warning: conflicting types for 'modifyString'
  void modifyString(char *s){
^~~~~~
A1_Q3.c:14:1: note: previous implicit declaration of 'modifyString' was here
  modifyString(str);
^~~~~~
shivam@shivam-VirtualBox:~/Desktop$ gdb test
GNU gdb (Ubuntu 8.1-0ubuntu3.2) 8.1.0.20180409-git
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and "show warranty" for details.
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For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
<http://www.gnu.org/software/gdb/documentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from test...done.
(gdb) r
Starting program: /home/shivam/Desktop/test
Enter integer in 0..4999: 5000
enter value less than 5000[Inferior 1 (process 2198) exited normally]
(gdb)
```



Type here to search



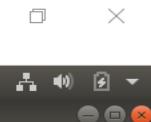


```
#include <stdio.h>
#include "string.h"
int main(int argc, char* argv[]) {
int i, j, k;
i=5;
int *p = &i; // earlier point p was not pointing to any of the address so gdb shows error
int arr[500]; // As a part of debugging pointer p is assigned a valid address to solve segmentation fault
char *str;
for(j = 1; j < 500; ++j){ // Array index was out of bound here earlier it was 5000 now changed to 500
arr[j] = j;
//printf("%d",*p);
}
str="System";
modifyString(str);
printf("Enter integer in 0..4999: ");
scanf("%d", &k); // earlier scanning without & leads to segmentation fault
if(k<5000)foo(arr, k); // value > 4999 cause segmentation fault
else printf("enter value less than 5000");
}
int foo(int* c, int k) {
printf("x[%d] = %d\n", k, c[k]);
}
void modifyString(char *s){
//*(s+3) = 'k'; // Trying to modify String constant is illegal
}
```



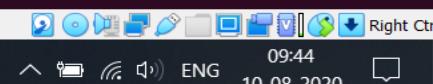
Question-3

Part-2



File Edit View Search Terminal Help

```
^~~~  
temp.c:5:6: warning: unused variable 'p' [-Wunused-variable]  
int *p=&i;  
^  
temp.c: At top level:  
temp.c:21:6: warning: conflicting types for 'modifyString'  
void modifyString(char *s){  
^~~~~~  
temp.c:13:1: note: previous implicit declaration of 'modifyString' was here  
modifyString(str);  
^~~~~~  
temp.c: In function 'foo':  
temp.c:20:1: warning: control reaches end of non-void function [-Wreturn-type]  
}  
^  
shivam@shivam-VirtualBox:~/Desktop$ gcc temp.c -Wall  
temp.c: In function 'main':  
temp.c:13:1: warning: implicit declaration of function 'modifyString' [-Wimplicit-function-declaration]  
modifyString(str);  
^~~~~~  
temp.c:15:9: warning: format '%d' expects argument of type 'int *', but argument 2 has type 'int' [-Wformat=]  
scanf("%d", k);  
^  
temp.c:16:1: warning: implicit declaration of function 'foo' [-Wimplicit-function-declaration]  
foo(arr, k);  
^~~~  
temp.c:4:5: warning: unused variable 'i' [-Wunused-variable]  
int i, j, k;  
^  
temp.c: At top level:  
temp.c:21:6: warning: conflicting types for 'modifyString'  
void modifyString(char *s){  
^~~~~~  
temp.c:13:1: note: previous implicit declaration of 'modifyString' was here  
modifyString(str);  
^~~~~~  
temp.c: In function 'foo':  
temp.c:20:1: warning: control reaches end of non-void function [-Wreturn-type]  
}  
^  
temp.c: In function 'main':  
temp.c:10:1: warning: 'p' may be used uninitialized in this function [-Wmaybe-uninitialized]  
printf("%d", *p);  
^~~~~~  
temp.c:15:1: warning: 'k' is used uninitialized in this function [-Wuninitialized]  
scanf("%d", k);  
^~~~~~  
shivam@shivam-VirtualBox:~/Desktop$
```



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09:44
10-08-2020

Here by using the Wall command almost all “error” and “warnings” were spotted except one of modifying the string constant

Question-4

Part-1

Lectures | Lab/Tutorial (2020-08-06 at 03:3) | Assignment 1 - Google Docs | Untitled document - Google Doc +

docs.google.com/document/d/1CCLV8iGM754esMp6FRXELhYy7fSHaAMdztOX7i5LWSA/edit

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Normal text Arial 11 B I U A 100% Editing

Line Number X Result answer y

6	5	Not define	Not define	Not define
9	10	Garbage value	Not define	Not define
11	10	35	No symbol in current context	No symbol in current context
15	5	Not define in the called function	Garbage value	10
19	20	Not defined in the called function	15	10
21	20	Not defined in the called function	35	10

Type here to search

1:50 PM 8/10/2020

Question-4

Part-2

Lectures | Lab/Tutorial (2020-08-06 at 03:3) | Assignment 1 - Google Docs | Untitled document - Google Doc +

docs.google.com/document/d/1CCLV8iGM754esMp6FRXELhYy7fSHaAMdztOX7i5LWSA/edit

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Headings you add to the document will appear here.

Line Number	X	Result	answer	y
6	0	0	No symbol in current context	No symbol in current context
9	10	0	No symbol in current context	No symbol in current context
11	10	35	No symbol in current context	No symbol in current context
15	0	"000"repeats 113 times	0	10
19	20	"000"repeats 113 times	15	10
21	20	"000"repeats 113 times	35	10

Type here to search

1:07 PM 8/10/2020

Question-4

Part-3

Ans-1 : value of result at line 9 is 0 It is assigned by the compiler for proof visit slide 37.

After Executing the program multiple time value of result do not changes

Ans-2 value of X at line 9 and 15 is 10 and 0

At line 9 compiler searches for variable X in local scope of function and is able to find the value of X so debugger is showing value 10.

At line 15 compiler searches X but didn't find any local variable X so while debugging its value is shown as 0

Ans-3 At Line 6 and 15 values of X were different. My answer for X was 5 at both line because I thought X is a global variable so value 5 will be reflected.

But I came to know that Compiler first serach a variable in local scope then if it do not find in local scope then it would go gor the global scope.

Value of result doesn't change

Ubuntu [Running] - Oracle VM VirtualBox

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Activities Terminal

Mon 20:57

shivam@shivam-VirtualBox: ~/Desktop

```
File Edit View Search Terminal Help
Find the GDB manual and other documentation resources online at:
<http://www.gnu.org/software/gdb/documentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from tem...done.
(gdb) break 9
Breakpoint 1 at 0x86c: file A1_Q4.cpp, line 9.
(gdb) r
Starting program: /home/shivam/Desktop/tem
Program is starting.

Breakpoint 1, main () at A1_Q4.cpp:9
9      cout << "In the middle of the program.\n";
(gdb) print result
$1 = 0
(gdb) continue
Continuing.
In the middle of the program.
In the function.
In the middle of the function.
The function is exiting.
The result is 35.
[Inferior 1 (process 1924) exited normally]
(gdb) r
Starting program: /home/shivam/Desktop/tem
Program is starting.

Breakpoint 1, main () at A1_Q4.cpp:9
9      cout << "In the middle of the program.\n";
(gdb) print result
$2 = 0
(gdb) continue
Continuing.
In the middle of the program.
In the function.
In the middle of the function.
The function is exiting.
The result is 35.
[Inferior 1 (process 1928) exited normally]
(gdb) r
Starting program: /home/shivam/Desktop/tem
Program is starting.

Breakpoint 1, main () at A1_Q4.cpp:9
9      cout << "In the middle of the program.\n";
(gdb) print result
$3 = 0
(gdb)
```

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Right Ctrl

20:57
10-08-2020

ENG



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Find the GDB manual and other documentation resources online at:
<http://www.gnu.org/software/gdb/documentation/>.

For help, type "help".

Type "apropos word" to search for commands related to "word"...

Reading symbols from tem...done.

(gdb) break 9

Breakpoint 1 at 0x86c: file A1_Q4.cpp, line 9.

(gdb) r

Starting program: /home/shivam/Desktop/tem

Program is starting.

Breakpoint 1, main () at A1_Q4.cpp:9

9 cout << "In the middle of the program.\n";

(gdb) print result

\$1 = 0

(gdb) continue

Continuing.

In the middle of the program.

In the function.

In the middle of the function.

The function is exiting.

The result is 35.

[Inferior 1 (process 1924) exited normally]

(gdb) r

Starting program: /home/shivam/Desktop/tem

Program is starting.

Breakpoint 1, main () at A1_Q4.cpp:9

9 cout << "In the middle of the program.\n";

(gdb) print result

\$2 = 0

(gdb) continue

Continuing.

In the middle of the program.

In the function.

In the middle of the function.

The function is exiting.

The result is 35.

[Inferior 1 (process 1928) exited normally]

(gdb) r

Starting program: /home/shivam/Desktop/tem

Program is starting.

Breakpoint 1, main () at A1_Q4.cpp:9

9 cout << "In the middle of the program.\n";

(gdb) print result

\$3 = 0

(gdb) █



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Mon 20:59

shivam@shivam-VirtualBox: ~/Desktop



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Type "apropos word" to search for commands related to "word"...

Reading symbols from tem...done.

(gdb) break 9

Breakpoint 1 at 0x86c: file A1_Q4.cpp, line 9.

(gdb) r

Starting program: /home/shivam/Desktop/tem

Program is starting.



Breakpoint 1, main () at A1_Q4.cpp:9

9 cout << "In the middle of the program.\n";

(gdb) print result

\$1 = 0

(gdb) continue

Continuing.

In the middle of the program.

In the function.

In the middle of the function.

The function is exiting.

The result is 35.

[Inferior 1 (process 1924) exited normally]

(gdb) r

Starting program: /home/shivam/Desktop/tem

Program is starting.



Breakpoint 1, main () at A1_Q4.cpp:9

9 cout << "In the middle of the program.\n";

(gdb) print result

\$2 = 0

(gdb) continue

Continuing.

In the middle of the program.

In the function.

In the middle of the function.

The function is exiting.

The result is 35.

[Inferior 1 (process 1928) exited normally]

(gdb) r

Starting program: /home/shivam/Desktop/tem

Program is starting.



Breakpoint 1, main () at A1_Q4.cpp:9

9 cout << "In the middle of the program.\n";

(gdb) print result

\$3 = 0

(gdb) info locals

result = 0

X = 10

(gdb) [REDACTED]



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20:59

10-08-2020

