StandardIO Quiz

Due Sep 24 at 11:59pm **Points** 35 **Questions** 25 **Time Limit** 300 Minutes

Instructions

Take time to understand the code. If in doubt, cut and paste the code in a file, compile and see what is printed. Then understand what happened.

// compile with -Wall -Wextra -pedantic

// this will not hide any warnings and forces gcc not use any of its own standards and stick with the C standard.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	47 minutes	31 out of 35

(!) Correct answers are hidden.

Score for this quiz: **31** out of 35 Submitted Sep 22 at 5:54pm This attempt took 47 minutes.

```
What is the value of ch printed in this program when user enters

23 34<enter>

Pay attention to %d in the printf statement.

----

#include <stdio.h>
int main ()

{
  int x;
  char ch;
  int y;
```

```
scanf ( "%d%c%d", &x, &ch, &y);
printf ("The value of ch is %d \n", ch);
}

32

space
23

10
```

```
2 / 2 pts
Question 2
// What is the value of x and y when user enters
20345<enters>
#include <stdio.h>
int main ()
int x=20;
int y = 30;
scanf ( "%3d%2d", &x, &y);
printf ("The value of x is %d\n", x);
printf ("The value of y is %d\n", y);
}
//
   x = 20, y = 345
   x=2 y = 345
   x = 20, y=3
   x = 203, y=45
```

Question 3 2 / 2 pts

```
// What is the value of x and y printed when user enters

223 3456<enter>

#include <stdio.h>
int main ()
{
    int x=20;
    int y =30;
    scanf ("%*d %2d", &y);
    printf ("The value of x is %d\n", x);
    printf ("The value of y is %d\n", y);
}

    x=20, y=22

    x=20, y=34

    x=22, y=3456

    x=22, y=34
```

Incorrect

Question 4 0 / 2 pts

```
// what is the problem with this program. gcc gives compilation warnings.

// compile with -Wall

// this will not hide any warnings.

int main ()
{
    int x = 20;
    int y;

#include <stdio.h>

scanf ( "%d", y);
}
```

0 -	There is no printf statement
0 -	There is no ampersand for the y in scanf
0 1	variable x is not initialized
o i	nclude statement should be the first line

Question 5	2 / 2 pts
What is the value of ch printed in this program when user enters	
23 <enter></enter>	
34 <enter></enter>	
Pay attention to %d in the printf statement.	
#include <stdio.h></stdio.h>	
int main ()	
{	
int x;	
char ch;	
int y;	
scanf ("%d%c%d", &x, &ch, &y);	
printf ("The value of ch is %d \n", ch);	
// you should ask why it prints this value and understand. // HINT: ASCII table	
// HINT. AGOIT Table	
O 9	
10	
O 11	
O 12	

Question 6 2 / 2 pts

```
What is the value numRead?
#include <stdio.h>
int main ()
int x;
int y;
int numRead = scanf ( "%d%d", &x, &y);
printf ("The number of items read is %d \n ", numRead );
}
// When user enters
5000 Rocklin Blvd 300<enter>
   0
   1
   O 2
   3
```

Question 7 2 / 2 pts

```
#include <stdio.h>
int main ( )
{
  int x;
  char ch;
  int y;
  int numRead = scanf ( "%d%c%d", &x, &ch, &y);
  printf ("The number of items read is %d\n", numRead );
}

// What is the value of numRead if user enters
3000 4000<enter>
```

O 0			
0 1			
O 2			
3			

```
#include <stdio.h>
int main ()
{
    char ch1, ch2, ch3;
    int numRead = scanf ( "%c%c%c", &ch1, &ch2, &ch3);
    printf ("The number of items read is %d\n", numRead );
}

// what is the number of items read printed if user enters

AB<enter>

3
    2
    1
    0
```

```
#include <stdio.h>

int main ()
{

char ch1, ch2, ch3;

ch1 = getchar ();

scanf("%c", &ch2);

printf ( "%c %c \n", ch1, ch2);
}
```

values i	s in ch1 and ch2 would be same if user enters	

```
2 / 2 pts
Question 10
#include <stdio.h>
int main ()
char ch1, ch2, ch3;
int ch;
ch1 = getchar();
ch3= getchar ();
ch2 = getchar ();
printf ( "%c %c \n", ch1, ch2);
}
would the values in ch1 and ch2 be same if user enters
A<enter>
A<enter>
   True
   False
```

```
Question 11 1/1 pts

float value;

value = 789.34; // is same as
```

True	
○ False	
Question 12	1 / 1 pt
789.23e2 is same as 78923	
True	
○ False	
Question 13	1 / 1 pt
putchar ('E') can be written as	
putchar(69);	
True	
○ False	
Question 14	1 / 1 pt
int x ;	
scanf ("%d", x) ;	
	error because the address of x i

False			

Question 15	1 / 1 pts
int x = 5;	
scanf ("%*d %d", &x) ;	
if user enters	
10 30 <enter></enter>	
what would be the value of x after scanf successfully reads the values.	
O 5	
30	
O 10	
onone of the above	

int i = 5; scanf ("%*c %d ", &i); If user enters 10 30<enters> What would be the value of i after scanf successfully reads the values 0 5 10 30

Question 17 1 / 1 pts

```
#include <stdio.h>
int main ( )
{
  int x;
    scanf( "%d",x);
}
what is wrong with this program ?

Your Answer:
No amperand sign aka a pointer, to store the value into a memory address.
```

Question 18 0 / 1 pts

```
#include <stdio.h>
int main
{
  int x;
  char ch;
  int y;
}
  what is wrong with the program ?

Your Answer:
```

No error. No assignment of the variable, but initialized is fine. Will compile perfectly fine just doesn't have no output.

Question 19 1 / 1 pts

```
#include <stdio.h>
int main ( )
{
  int x;
  char ch;
  int y;
  scanf( "d", &x);
}
  what is wrong with this program ?

Your Answer:
```

No format specifier provided for our data type aka percent sign (%) , so will give compilation errors /warnings. Should have %d instead of d.

Question 20 1 / 1 pts

```
#include <stdio.h>
int main ( )
{
  int x;
  char ch;
  int y;
  scanf( %d ,x);
}
what is wrong with this program ?
```

Your Answer:

No pointer / amperand sign provided to assign our variable x. Also no quotes provided around our format specifier so compiler would return 2 errors one for quotes and 1 for storing the variable without a pointer. scanf("%d", &x) would be the appropriate call to this function.

Question 21 0 / 1 pts

```
#include <stdio.h>
int main ( )
{
  int x;
    char ch;
  int y;
    scanf( "%d",x) :
}
what is wrong with this program ?
```

Your Answer:

No pointer specified to assign our variable x. Would result in a compilation error / warning as we need to specify a pointer to store the value in memory. Need memory address to store.

Question 22 1 / 1 pts

The ASCII value of letter 'A' is:

65			
O 66			
O 67			
O 64			
			4.14 4

Question 23	1 / 1 pts
The ASCII value of letter 'a' is :	
97	
O 87	
O 77	
O 98	

Question 24	1 / 1 pts
char ch = getchar () ;	
If user enters	
ABCD <enter></enter>	
what would be the value of ch	
A	
ОВ	
○ c	
O D	

Question 25	1 / 1 pts
If user enters	
ABCD <enter></enter>	
ADOD CITICIP	
char ch = getchar () ;	
ch = getchar ();	
on – getonar () ,	
what would be the value of ch after the code executes	
○ A	
○ C	
○ D	

Quiz Score: 31 out of 35

Quiz on Linux commands

Due Sep 10 at 11:59pm **Points** 21 **Questions** 21 **Time Limit** 300 Minutes

Instructions

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	10 minutes	21 out of 21

(!) Correct answers are hidden.

Score for this quiz: **21** out of 21 Submitted Sep 9 at 11:15pm This attempt took 10 minutes.

Question 1	1 / 1 pts
cd	
The above command is changing the working directory to	
oroot folder	
parent folder	
child folder	
○ home folder	

Question 2	1 / 1 pts
ls -l The above command does what ?	
print all files starting with letter I	

print all files in long listing	
 print working directory 	
oprint all files minus link files	
Question 3	1 / 1 pts
cal	
print what ?	
calendar of every month	
calendar of the current month	
all California campus	
calculator	
○ calculator	
	1 / 1 pts
Question 4	1 / 1 pts
Question 4 The symbols	1 / 1 pts
Question 4 The symbols . and	1 / 1 pts
Question 4 The symbols . and	1 / 1 pts
Question 4 The symbols . and represent	1 / 1 pts
Question 4 The symbols . and represent parent and grand parent	1 / 1 pts
Question 4 The symbols . and represent parent and grand parent current folder and parent folder	1 / 1 pts
Question 4 The symbols . and represent parent and grand parent current folder and parent folder parent and child	1/1 pts

passwd

○ chgpass	
O ps	
pwd	
Question 6	1 / 1 pts
Γhis command is used to copy a file	
Odocopy	
О сору	
О сру	
© ср	
Question 7	1 / 1 pts
This command will print the working directory	
O dwd	
pwd	
o print mydir	
O ps	
Question 8	1 / 1 pts
You rename a file using this command :	
○ rm	

o ren	
mv	
O ср	
Question 9	1 / 1 pts
This command modifies the modified timestamp of a filename.	a file. If the file is not existing, it will create
○ mv	
touch	
O Is	
Оср	
Question 10	1 / 1 pt
	1 / 1 pts
This command is used to change permissions on a	
This command is used to change permissions on a	
This command is used to change permissions on a chgrp	
This command is used to change permissions on a chgrp pwd chsh chmod	
This command is used to change permissions on a chgrp pwd chsh chmod	a file
pwdchsh	a file

Question 12	1 / 1 pt
This command is used to remove the folder (if empty)	
O mv	
O ср	
rmdir	
O mkdir	
Question 13	1 / 1 pt
Question 13	1 / 1 pt
	1 / 1 pt
cd	
od	
cd The above command will change the working directory	
cd The above command will change the working directory	
cd The above command will change the working directory parent folder child folder	
cd The above command will change the working directory	
cd The above command will change the working directory parent folder child folder	
cd The above command will change the working directory parent folder child folder current folder	
cd The above command will change the working directory parent folder child folder current folder home folder	
The above command will change the working directory parent folder child folder current folder home folder	to:
cd The above command will change the working directory parent folder child folder current folder	to:

remove files in current folder	
removes all files recursively and forcefully	
removes files in the entire system	
Question 15	1 / 1 pts
The symbol for the root folder is	
O	
○ ~	
O	
Question 16	1 / 1 pts
pwd prints the path relative	
O parent	
absolute	
○ child	
Question 17	1 / 1 pts
env prints	
environment variables	
global variables	
O local variables	

Question 18	1 / 1 pts
This symbol / represents	
oroot folder	
○ home directory	
○ binary folder	
oparent folder	
Question 19	1 / 1 pts
when we have this :	
when we have this : drwx 2 srivatss othcsc 4096 Sep 7 2017 print	
drwx 2 srivatss othcsc 4096 Sep 7 2017 print	
drwx 2 srivatss othcsc 4096 Sep 7 2017 print	
drwx 2 srivatss othcsc 4096 Sep 7 2017 print What is the letter d stands for in drwx	
drwx 2 srivatss othcsc 4096 Sep 7 2017 print What is the letter d stands for in drwx destination	
drwx 2 srivatss othcsc 4096 Sep 7 2017 print What is the letter d stands for in drwx destination deleted	
drwx 2 srivatss othcsc 4096 Sep 7 2017 print What is the letter d stands for in drwx destination deleted to be deleted	1 / 1 pts
drwx 2 srivatss othosc 4096 Sep 7 2017 print What is the letter d stands for in drwx destination deleted to be deleted directory Question 20	1 / 1 pts
drwx 2 srivatss othcsc 4096 Sep 7 2017 print What is the letter d stands for in drwx destination deleted to be deleted directory	1 / 1 pts

loginID
owner of the system
folder name

Question 21	1 / 1 pts
-rw 1 srivatss othcsc 37 Mar 4 2020 2019.txt	
what is 37 ?	
size of the file	
number of days untouched	
number of days since rebooted	
age of the file	

Quiz Score: 21 out of 21

Quiz on Control Structures

Due Sep 29 at 11:59pm

Points 35

Questions 35

Time Limit 300 Minutes

Attempt History

LATEST Attempt 1 41 minutes	35 out of 35

(!) Correct answers are hidden.

Score for this quiz: **35** out of 35 Submitted Sep 29 at 11:11pm This attempt took 41 minutes.

 Question 1
 1/1 pts

 What is printed ?
 int x = 20 , y = 35 , z = 0;

 if ((x == 30) && (y = 40))
 z = 10;

 printf ("%d \n", z);
 10

 nothing
 35

 0
 0

Question 2 1/1 pts

What is printed ?

```
int x = 20 , y = 35 , z = 0;

if ((x == 30)|| (y = 40))

z = 10;

printf ("%d \n", z);

10

0

40

30
```

Question 3 1 / 1 pts

What is printed?

int
$$x = 20$$
, $y = 35$, $z = 0$;

$$z = 10;$$

printf ("%d \n", z);

- 0
- 0 10
- 20
- 0 15

Question 4 1 / 1 pts

int x = 0, y = 10;

```
while (x){
    y++;
}
printf("%d\n", y);

    0
    10
    11
    12
```

```
printf ( "%d \n", x );
break;

case y:
    printf ( "%d \n", y);
break;

// default :
    // break;

default statement is commented. It should be uncommented.

you can't have expressions in case statements (marked red)

You need more case statements.

There is no problem with this program
```

Question 7 1 / 1 pts

What is wrong with this program ? if there is no problem, what is printed ? int x = 11, y = 20; if (x < 10)

20

else (x > 10)

ompilation error, if is missing after else

0 10

Not in syllabus

printf (" %d \n", x);

printf ("%d \n", y);

Question 8 1 / 1 pts

```
int x = 0, y = 21;

for (; x < 10; x++);

;

printf ("%d \n", y);

what is printed value of y?

21

x is not initialized in the for loop

for loop should have statements
```

Question 9 1 / 1 pts

```
int x = 10, y = 15;

for (x = 10; x < 20; x++)

{
    int y = 20;
    break;
}

printf ( "%d \n", y);

what is the printed value of y

15
```

ocompilation error		
O 25		

What is the output of the following code segment?

int x = 5;
if (x = 2)
 printf("This is true!");
else
 printf("This is False! ");
 printf("Good Bye! ");

 This is true!

 This is False!

 This is False!

 This is False!

 This is False!Good Bye!

Question 11	1 / 1 pts
Which of the following expressions results in false value	
A. true && false	
B. true && true	
C. true true	
D. false true	
A	
ОВ	
○ C	

O D

Question 12	1 / 1 pts
How many times will the following loop display "Hello"?	
int i =0;	
for (i = 0; i < 20; i++)	
printf ("Hello! \n");	
O 19	
© 20	
O 21	
O 22	

 Question 13
 1/1 pts

 How many times will the following loop display "Hello"?

 int i = 0;

 for (i = 0; i <= 10; i+=2)</td>

 printf ("Hello!");

 4

 5

 6

 7

Question 14	1 / 1 pts
True or False.	

```
This code will compile.

int x = 10;
switch x
{
    case 10:
    printf ( "Yes" );
    break;
}

True

False

Yes, there should be ( ) around x in the switch statement
```

```
      Question 15
      1/1 pts

      char ch = 'A';
      printf( "%d", ch );

      What is printed value of ch
      65

      66
      97

      98
```

```
Question 16

#include <stdio.h>
main ( )
```

```
{
char ch = A;
scanf ("%d", ch);
}

does the program compile or run successfully ? if Yes, what is printed. If no, what happens.

65
66
97
© compiler error
```

Question 17 1/1 pts char ch = 'A'; ch = ch + 4; What is the value of ch? 66 68 67 ● 69 69

```
x=+10;

20

10

30

40
```

```
int x = 20;
x += 10;
{
  int x = 10;
}
printf ( "%d \n", x);

10
20
30
40
```

```
Int i;
for (i = 0; i < 10; i++)
    if (i < 5)
    break;</pre>
What is the value i after break;
```

<pre>0</pre>			
O 1			
O 2			
O 5			

```
1 / 1 pts
Question 21
#include <stdio.h>
int main(void) {
int x = 5;
if (x = 0)
  printf ( "Hello ");
else
 printf ( "bye ");
printf ( "%d\n", x);
return 0;
}
What is the value of x printed?
   0
   5
   0 1
   2
```

```
#include <stdio.h>

int main(void) {
  int x = 5;
  if (x = 10)
     printf ("Hello");
  else
     printf ("bye");
```

```
printf ( "%d\n", x);

return 0;
}
What is the value of x printed ?

10

5

0

1
```

```
#include <stdio.h>

int main(void) {
    int x = 5;
    if (x = 10)
        printf ("Hello");
        printf ("World");
    else
        printf ("bye");
    printf ("%d\n", x);

return 0;
}
The above has compiler errors. True or False

True

False
```

```
#include <stdio.h>

int main(void) {
  int x = 5;
  if (x == 5) {
    int y = 20;
}
```

```
printf ( "y=%d\n", y);

return 0;
}
The above code has compiler problems. True or False

True

False
```

```
#include <stdio.h>
int y = 20;

int main(void) {
    int x = 5;
    if (x == 5) {
        int y = 10;
    }

printf ( "y=%d\n", y);

return 0;
}
The printed value of y is 20

True

False
```

```
#include <stdio.h>
int x = 20;

int main(void) {
  int x = 5;
  if (x == 5) {
    int x = 10;
```

```
printf ( "x=%d\n", x);

return 0;
}
The printed value of x is 10

True

False
```

```
1 / 1 pts
Question 27
#include <stdio.h>
int x = 20;
int main(void) {
int x = 5;
while (1 == 1)
   x++;
   break;
}
printf ( "x=%d\n", x);
return 0;
}
What is the value of x printed?
   6
   20
   5
   0 1
```

```
Question 28

#include <stdio.h>
int x = 20;
```

Question 29 1 / 1 pts

5			
O 6			
O 20			
0 1			

```
1 / 1 pts
Question 30
#include <stdio.h>
int x = 20;
int main(void) {
int x = 5;
for ( ; 1 == 0 ; )
  x++;
  break;
}
printf ( "x=%d\n", x);
return 0;
What is the value of x printed ?
   5
   20
   6
   0 1
```

```
#include <stdio.h>
int x = 20;

int main(void) {
  int x = 5;
  for (; 1 == 1;)
  {
```

```
x++;
break;
}

printf ( "x=%d\n", x);

return 0;
}

What is the value of x printed ?

6

5

20

1
```

Question 32 1 / 1 pts

```
#include <stdio.h>
int x = 20;
int main(void) {
int x = 5;
do
{
   χ++;
   break;
} while ( 1 == 1 );
printf ( "x=%d\n", x);
return 0;
What is the value of x printed?
    6
    5
    20
    0 1
```

Question 33 1 / 1 pts

```
#include <stdio.h>
int x = 20;
int main(void) {
int x = 5;
do
{
  χ++;
  break;
  x=40;
} while ( 1 == 1 );
printf ( "x=%d\n", x);
return 0;
}
The statement x = 40 will never be executed. True or False
    True
    False
```

Question 34 1 / 1 pts

```
#include <stdio.h>
int x = 20;

int main(void) {
   int x = 5;
   do
   {
        x++;
        continue;
        x=40;
} while (1 == 1);

printf ("x=%d\n", x);

return 0;
}
The statement x = 40 will never be executed. True or False
```

```
TrueFalse
```

```
1 / 1 pts
Question 35
#include <stdio.h>
int x = 20;
int main(void) {
int x = 5;
do
{
 χ++;
 x=40;
} while ( 1 == 0 && 1 == 1 );
printf ( "x=%d\n", x);
return 0;
The value of x printed is 40. True or False
    True
    False
```

Quiz Score: 35 out of 35

Bitwise operators

Due Oct 2 at 11:59pm

Points 21

Questions 21

Time Limit 300 Minutes

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	11 minutes	21 out of 21

Score for this quiz: **21** out of 21 Submitted Oct 2 at 7:57pm This attempt took 11 minutes.

	Question 1	1 / 1 pts
	if (1 >> 1) putchar ('T'); else putchar ('F');	
	○ T	
Correct!	● F	
	ОП	
	O FT	
	O FT	

Question 2	1 / 1 pts
What is printed	
unsigned char a = 0x23; unsigned char b = 0x45;	
printf ("c=0x%x\n", a & b);	
○ c=0x23	
○ c=0x45	

Question 3

1/1 pts

unsigned char a = 0x10;
unsigned char b = 0;
if (~b)
putchar ('T');
else
putchar ('F');

TT

FF

Correct!

T

F

```
Question 4

unsigned char a = 0x23;
unsigned char b = 0x45;

printf ( "c=0x%x\n", a | b );
What is printed?

c=0x23

c=0x23

c=0x67

c=0x1
```

```
Question 5 1 / 1 pts
```

	unsigned char x = 0x21, y; y = x & 0x1;	
	what is the value of y	
Correct!	1	
	O 2	
	Ox21	
	O 33	
	Question 6	1 / 1 pts
	unsigned char x = 0x20, y ;	
	y = x >> 4; what is the value of y now?	
Correct!	© 2	
	O 3	
	O 0xF	
	O 0XF0	
	Question 7	1 / 1 pts
	unsigned char x = 0xF, y ;	
	x = x << 4 0xF;	
	what is the value of x ?	
Correct!	© 255	
	O 256	
	O 254	
	O 257	

```
Question 8

Unsigned char a = 0x10;
Unsigned char b = 0x1;
if (a & b)
Putchar ('T');
else
Putchar ('F');
What is printed?

Correct!

F

T

FT

TF
```

```
Question 9

unsigned char x = 0x21, y;
y = x | 0x10;
what is the value of y now?

48

Correct!

9 49

0 0

1
```

```
Question 10

1/1 pts

unsigned char a = 0x10;
unsigned char b = 0;
if (a | b)
   putchar ('T');
else
   putchar ('F');
What is printed ?
```

	○ F	
Correct!	● T	
	ОП	
	O TF	
		4/44-
	Question 11	1 / 1 pts
	unsigned char x = 0x21, y; y = x >> 1; what is the value of y now?	
Correct!	16	
	O 17	
	O 0x21	
	○ 0x1	
	Question 12	1 / 1 pts
	unsigned char x = 0x21, y; y = x >> 0; what is the value of y now?	
	what is the value of y flow ?	
Correct!	33	
	O 32	
	O 30	
	O 1	
	Question 13	1 / 1 pts

unsigned char x = 0x21, y;

y = x & 0x10;

	what is the value of y now?	
Correct!	© 0	
	O 1	
	Ox21	
	O 32	
	Question 14	1 / 1 pts
	unsigned char a = 0x36 << 1; printf ("%d", a);	
	O 36	
	Ox36	
	O 54	
Correct!	108	
	Question 15	1 / 1 pts
	unsigned char a = 0x36 >> 1; printf ("%d", a);	
Correct!	© 27	
	O 28	
	O 30	
	O 36	
	Question 16	1 / 1 pts
	unsigned char a = 0x10;	

unsigned char b = 0x1;

	if (a & b)	
	putchar ('T'); else	
	putchar ('F');	
	What is printed ?	
Correct!	● F	
	ОТ	
	O FT	
	ОТБ	
	Question 17	1 / 1 pts
	unsigned char a = 0x24 >> 2;	
	printf ("%d", a);	
	what is printed ?	
	O 24	
	O 36	
	○ 18	
Correct!	9	
	Question 18	1 / 1 pts
	if (1 >> 1)	
	putchar ('T');	
	else	
	putchar ('F');	
	ОТ	
Correct!	● F	
	ОТТ	
	O FT	

```
      Question 19
      1/1 pts

      unsigned char a = 0x10;
unsigned char b = 0;
if (~b)
putchar ('T');
else
putchar ('F');

      ○ TT

      ○ FF

      Correct!
      ● T

      ○ F
```

```
Question 21 1/1 pts

unsigned char a = 0x36 >> 1;
printf ( "%d", a);
```

27
O 28
O 30
O 36

Quiz Score: **21** out of 21

quiz on strings

Due Oct 29 at 11:59pm **Points** 20 **Questions** 20 **Time Limit** 300 Minutes

Instructions

you can look at the man pages to answer some of these

Attempt History

Correct!

	Attempt	Time	Score
LATEST	Attempt 1	26 minutes	19 out of 20

Score for this quiz: **19** out of 20 Submitted Oct 29 at 7:10pm This attempt took 26 minutes.

Question 1	1 / 1 pts
char name[12] = "Jack" ;	
int data1[12];	
short data2[12];	
char data3[12];	
char data4[3] ;	
strcpy(, name); which array is most suitable ?	
O data2	
○ data1	
data3	
O data4	

	Question 2	1 / 1 pts
	<pre>char *strcpy(char *restrict dest, const char *src);</pre>	
	The strcpy () function copies the string pointed to by <i>src</i> , the terminating null byte ('\0'), to the buffer pointed to by <i>dest</i> .	
	onone of the above	
	removing	
	excluding	
Correct!	including	
	Question 3	1 / 1 pts
	The function calculates the length of the string pointed to by s, excluding the terminating null byte (' $\0$ ').	
	stringlen()	
	stringlength()	
	O length()	
Correct!	strlen ()	
	Question 4	1 / 1 pts
	The strchr() and strrchr() functions return a pointer to the matched character or if the character is not found.	
Correct!	NULL	
	O 1	
	O 2	
	0 0	

```
Question 5

The strcasestr() function is like strstr(), but ignores the case of both arguments

True

False
```

```
1 / 1 pts
Question 6
char name[12] = "Jack";
char data[ 12];
char *p;
strcpy ( data, name); // 1
strcpy ( name, data); //2
strcpy (name, p); // 3
strcpy (p, name); // 4
which strcpy is most suitable?
   2
   4
   1
   3
```

```
Question 7 0 / 1 pts

char * ptr = "Hello World";
```

	ptr = strchr (ptr, "w"); The ptr will have NULL value	
Correct Answer	O True	
You Answered	False	
	Question 8	1 / 1 pts
	<pre>char *strchr(const char *s, int c);</pre>	
	The strchr () function returns a pointer to the occurrence of the character c in the string s.	
	first uppercase	
Correct!	first	
	○ last	
	○ first lowercase	
	Question 9	1 / 1 pts
	<pre>char *strncpy(char *restrict dest, const char *restrict src, size_t n);</pre>	
	<pre>If the length of src is less than n, strncpy() writes additional bytes to dest to ensure that a total of n bytes are written</pre>	
Correct!	• null	
	O 2	
	O 1	
	O 3	



	Question 11	1 / 1 pts
	char *ptr = "Hello" ;	
	char *p ;	
	strcpy (p, ptr) will copy ptr to p	
You Answered	True	
Correct Answe	○ False	

	Question 12	1 / 1 pts
	<pre>size_t strlen(const char *s);</pre>	
	The strlen() function returns the number of in the string pointed to by s	
	O digits	
	O lowercase letters	
	uppercase letters	
Correct!	bytes	

what is the wrong with this code char myName [5] = "Jill"; char copyName; strcpy (copyName, myName); Correct! copyName should be an array at least as big as myName	
char copyName; strcpy (copyName, myName);	
Correct! copyName should be an array at least as big as myName	
myName should at least be little bigger	
There is nothing wrong with the code	
the arguments of the function are incorrect	

	Question 14	1 / 1 pts
	<pre>char *strstr(const char *haystack, const char *needle);</pre>	
	If needle is the empty string, the return value is haystack itself.	
Correct!	always	
	osometimes	
	Often	
	O never	

```
Question 15

printf ( "%d", strcmp ( "Walking", "walking") );
The above code will print 0
```

	O True	
Correct!	False	
	Question 16	1 / 1 pts
	char *ptr = "Hello" ;	
	char *p = "Hello" ;	
	strcmp (ptr, p) will return	
Correct!	0	
	○ 2	
	O -1	
	O 1	
	Question 17	1 / 1 pts
	<pre>char *strstr(const char *haystack, const char *needle); This function return a pointer to the of the located substring, or NULL if the substring is not found.</pre>	
	O middle	
	O end	
	onone of the above	
Correct!	beginning	
	Question 18	1 / 1 pts
	fill in the blank	

	The function finds the first occurrence of the substring needle in the string haystack. The terminating null bytes ('\0') are not compared
Correct!	● strstr ()
	○ strcats ()
	o strcpy ()
	strchr()
	Question 19 1 / 1 pts
	The strrchr () function returns a pointer to the last occurrence of the character <i>c</i> in the string <i>s</i> .
Correct!	True
	○ False
	Question 20 1 / 1 pts
	char *ptr = "Hello" ;
	char *p = "hello" ;
	strcmp (ptr, p) will return zero
	○ True
Correct!	False

Quiz Score: **19** out of 20

Structure quiz

Due Nov 12 at 11:59pm

Points 15

Questions 14

Time Limit 180 Minutes

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	5 minutes	15 out of 15

Score for this quiz: **15** out of 15 Submitted Nov 10 at 5:01pm This attempt took 5 minutes.

	Question 1	1 / 1 pts
	struct {	
	int x;	
	} Number;	
	is a valid definition of a a structure.	
Correct!	True	
	○ False	

Correct!	<pre>_ person</pre>	
	O Person	
	struct _person	
	There is no tag name defined here	
	Question 3	1 / 1 pts
	struct {	
	char name [1]	
	};	
	what is the error here?	
Correct!	There is no semi-colon for field name	
	unnamed struct/union that defines no instances	
	name is defined as 1 cells	
	There is no error here	
	Question 4	1 / 1 pts
	Two structures cannot be compared.	
Correct!	True	
	○ False	
	Question 5	1 / 1 pts

we can assign one structure to another structure of same type.

Correct!

True

False

guestion 7 struct _processes { char name [32]; int id; char status; }; struct _processes p1, *p2; p2 = &p1; // is this good statement.

Question 8 1 / 1 pts

```
struct _processes {
    char name [32];
    int id;
    char status;
};

struct _processes p1, *p2, *p3;

p1 = p2; // is this a good statement

True

Correct!

False
```

```
Look at the word document on typedefs

typedef struct _point {
    int x, y;
} Point_t;

Point_t is a new type definition.

Correctl

True

False
```

```
Question 10

2 / 2 pts

consider this array of structures
struct _processes pArray [8], *p;
```

```
p = & pArray [ 2 ];
p++;
// now, where does the pointer p is pointing to ?

Correct!

index 3

index 2

index 1

index 0
```

```
Question 12

typedef struct_person
{
  int age;
  char ch;
} Person_T;
```

	We always recommend to use sizeof operator to determine this structure.	e the number of bytes allocated to
Correct!	True	
	○ False	
	Ougstion 13	1 / 1 pts

```
Question 14

typedef struct_person
{
  int age;
  char ch;
} Person_T;

Person_T p;
Person_T *ptr;
```

	ptr = &p ; // is this a valid statement
Correct!	True
	○ False

Quiz Score: 15 out of 15

Quiz on pthread and semaphores

Due Dec 10 at 11:59pm Point

Points 12

Questions 12

Time Limit 180 Minutes

Attempt History

Attempt	Time		
LATEST Attempt	12 minutes	12 out of 12	

Score for this quiz: **12** out of 12 Submitted Dec 10 at 2:12pm This attempt took 12 minutes.

	Question 1	1 / 1 pts
	sem_wait	
	increments by 1	
Correct!	decrements by 1	
	decrements by 2	
	increments by 2	

	Question 2	1 / 1 pts
	sem_post	
Correct!	increments by 1	
	decrements by 1	
	decrements by 2	
	increments by 2	

Question 3	1 / 1 pts

	You initialize this to a value	
orrect!	semaphore	
	ехес	
	o pipe	
	pthread	
	Question 4	1 / 1 pts
	created semaphores can be listed in	
	○ /dev/semaphores/	
orrect!	/dev/shm/	
	○ /dev/sem/	
	○ /bin/semophores	
	Question 5	1 / 1 pts
	you open a semaphore with this	
	sem_getvalue	
rrect!	<pre>sem_open</pre>	
	○ sem_wait	
	<pre>sem_post</pre>	
	Question 6	1 / 1 pts
	sem_wait is	

	called to destroy semaphores	
	○ a macro	
Correct!	blocking call	
	onon-blocking call	
	Question 7	1 / 1 pts
	Before calling sem_wait, it is recommended to call	
	sem_wait	

sem_getvalue

sem_open

sem_post

Question 8	1 / 1 pts

	exit	
	pthread_mutex_unlock	
Correct!	© x++	
	Question 9	1 / 1 pts
	MutEx stands	
	O Mu Tech	
	Mute Exception	
	O Mutual Funds	
Correct!	Mutually Exclusive	
	Question 10	1 / 1 pts
	a thread is	
Correct!	lightweight	
	heavyweight	
	a new process	
	a old process	
	Question 11	1 / 1 pts
	pthreads executes functions in the	
	text segment	
	external memory	
	background	

orrect!	stack	
	Question 12	1 / 1 pts
	When you create several threads, the parent process can wait using	_
	<pre>pthread_pause</pre>	
	pthread_sleep	
rrect!	pthread_wait	
	○ pthread_suspend	

Quiz Score: 12 out of 12

Quiz on thread and fork

Due Dec 10 at 11:59pm

Points 12

Questions 12

Time Limit 120 Minutes

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	7 minutes	12 out of 12

(!) Correct answers are hidden.

Score for this quiz: **12** out of 12 Submitted Dec 10 at 2:21pm This attempt took 7 minutes.

Question 1	1 / 1 pts
Consider this code in a program:	
int pid = fork ();	
How many child processes would be created by this fork statement?	
O 3	
O 0	
① 1	

Question 2	1 / 1 pts	
creates a new process by duplicating the calling process. The new process is referred to as the <i>child</i> process. The calling process is referred to as the <i>parent</i> process		
O do_fork		
<pre>create_process ()</pre>		

○ create_thread	
fork ()	
Question 3	1 / 1 pt
when we do fork, the child process and the parent process run in	
same address space	
separate memory spaces.	
always runs on background	
always becomes a zombie process	
Question 4	1 / 1 pt
Immediately after a fork() both memory spaces	
O do not have same content	
have same content	
are erased with 0	
are initialized with 1	
Question 5	1 / 1 pt
<pre>pid = fork ();</pre>	
The child process will have pid = ?	
○ 3	
O 2	

0	
Question 6	1 / 1 pt
oid = fork ();	
n the parent process,pid will have process id	
child's process ID	
O 1	
O 0	
of parent itself	
Question 7	1 / 1 pt
on a fork (), The child inherits copies of the parent	's set of file descriptors.
short	
○ long	
Olong	
○ long◎ open	1 / 1 pt
open closed	rent, no child process is created, and

Question 9	1 / 1 pts
The function starts a new thread in the calling process.	
o pipe	
exec	
○ fork	
<pre>pthread_create()</pre>	
	4 / 44
Question 10	1 / 1 pts
Question 10	171 pt
	171 pt
	171 pt
	1/1 ρε
When you create a thread, a new process is created	171 pt
When you create a thread, a new process is created True	1 / 1 pt
When you create a thread, a new process is created True False	1 / 1 pt:
When you create a thread, a new process is created True	
When you create a thread, a new process is created True False Question 11	
When you create a thread, a new process is created True False	

pts

Quiz Score: 12 out of 12