❖ C Programming:

Practice due Apr 9, 2023 05:19 PDT Completed

Comments

1/1 point (graded)

Which statement(s) accurately describes the syntax for comments in C.

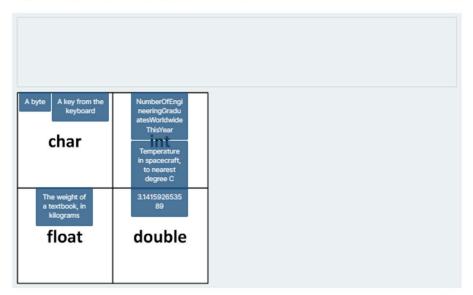
// indicates a comment continuing until the end of the line	
% indicates a comment continuing until the end of the line	
# indicates a comment continuing until the end of the line	
/* indicates a comment continuing until the end of the line	
/* indicates a comment continuing until the next */	
✓	
Submit Try again (1 attempt remaining) (1	Show answer

Data Types

1/1 point (graded)

E Keyboard Help

Drag the variable description to the appropriate C datatype.



€ Reset

ASCII values

1/1 point (graded)

What is the ASCII value for the letter 'C'? Remember that 'A' is 65.



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Function Prototypes	
1/1 point (graded)	
When is a function prototype required in C?	
of for all functions	
when the function is called before it is declared	
Only for recursive functions	
Submit Try again (1 attempt remaining) (9	Show answer
Function Declarations 1/1 point (graded)	
What is the best prototype for a function that sums the integers from a to b?	
O double sumInts(int a, int b);	
odouble sumints(double a, double b);	
int sumInts(int a, int b);	
ovoid sumInts(int a, int b, int sum);	
int foo(int, int);	
✓	
Submit Try again (1 attempt remaining) 1	Show answer

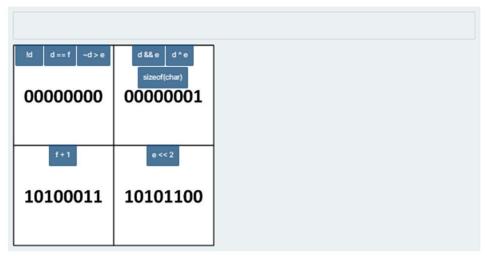
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C Expressions

1/1 point (graded)

E Keyboard Help

Suppose we declare char c; char d = 42; char e = 0b00101011; char f = 0xA2; Drag the expressions to their correct answer, expressed in binary.



Reset

FEEDBACK

i Good work! You can evaluate C expressions.

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Case Statement

1/1 point (graded)

If you forget the break in a switch statement, what could go wrong?



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```

Consider the following three blocks of code involving loops:

```
(a) While Loop
```

```
statement1;
while (condition) {
    statement2;
    statement3;
}
(b) Do/While Loop
statement1;
do {
    statement2;
    statement3;
} while (condition);
(c) For Loop
for (statement1; condition; statement3) statement2;
```

Equivalent Loops

1/1 point (graded)

Which of these loops do the same thing? Select all that apply.





Submit Try again (1 attempt remaining) 6

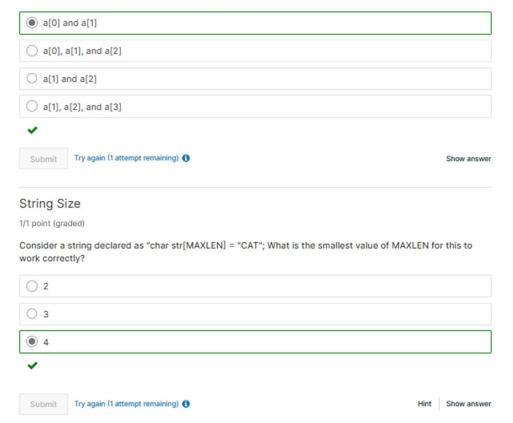
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Array Elements

1/1 point (graded)

Consider an array declared as int a[2]; The elements are

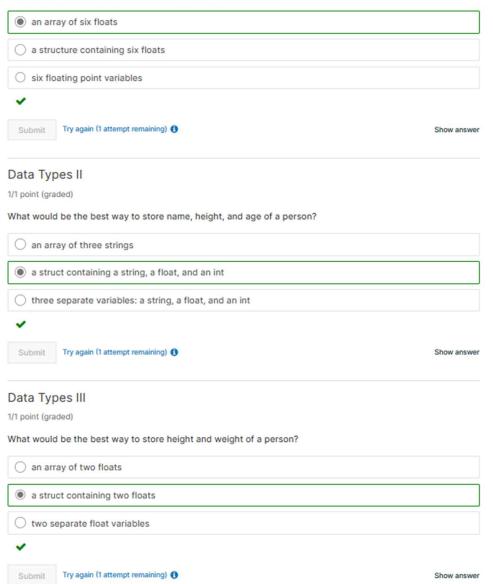


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Data Types

1/1 point (graded)

What would be the best way to store the heights of six people?



```
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Consider the following code, and suppose ints are 4 bytes long:

typedef struct person {
    char name[80];
    float height;
    int age;
} person;

person p1;
int s1 = sizeof(p1);

Structure size
1/1 point (graded)

What is s1?

88

V

Submit Try again (1 attempt remaining) (1)

Show answer
```

Practice due Apr 9, 2023 05:19 PDT Completed Consider the following code
float f;
float e;
float *fp;
fp = &e
*fp = 2.71828;
f = e + 1;
Pointers
1/1 point (graded)
After this code is run, what is the value of f?
3.71828
3.71828
Submit Try again (1 attempt remaining) 6 Show answer
Memory Locations
1/1 point (graded)
Suppose the variables in this program are stored in memory, starting at address 0×3000 . What is the value in fp?
O×3000
O×3008
O 2.71828
•
Submit Try again (1 attempt remaining) 6 Show answer

```
Consider the following code:
typedef struct person {
 char name[80];
 float height;
 int age;
} person;
person p1, p2;
person *pptr;
pptr = &p2;
Pointers to Structures
1/1 point (graded)
Check all the correct ways to set the age of person p2.
 ___ p1.age = 18;
 p2.age = 19;
 p2→age = 20;
 pptr.age = 21;
 ✓ pptr→age = 22;
 (*pptr).age = 23;
 Submit Try again (1 attempt remaining) 6
                                                                                         Show answer
```

```
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Consider the following code:
typedef struct person {
 char name[MAXLEN];
 float height;
 int age;
} person;
person p[100];
float *f = &(p[5].height);
float matrix[3][6];
Structures in Memory
1/1 point (graded)
Suppose the array of people starts at memory location 0×4000. What is the value of f?
 O×4000
 O×4000 + 4*(MAXLEN + 8) + MAXLEN
 O×4000 + 4*(MAXLEN + 8) + MAXLEN + 4

    0×4000 + 5*(MAXLEN + 8) + MAXLEN

 O×4000 + 5*(MAXLEN + 8) + MAXLEN + 4
  Submit Try again (1 attempt remaining) 6
                                                                                           Show answer
Arrays in Memory
1/1 point (graded)
Suppose matrix starts at location 100 in memory. All answers are expressed in decimal, not hexadecimal, in
this problem. What address contains matrix[2][1]?
 152
 152
  Submit Try again (1 attempt remaining) 6
                                                                                           Show answer
```

Practice due Apr 9, 2023 05:19 PDT Completed malloc	
1/1 point (graded)	
What is the correct statement to allocate a string of run-time variable size LEN?	
char str = malloc(LEN);	
char *str = malloc(LEN);	
char *str = (char*)malloc(LEN);	
<pre>char *str = (char*)malloc(LEN*sizeof(int));</pre>	
int *str = (int*)malloc(LEN*sizeof(int));	
•	
Submit Try again (1 attempt remaining) 1 Sho	ow answer

Show answer