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Results Displayed All Answers, Submitted Answers, Correct Answers, Feedback, Incorrectly Answered Questions

Question 1

Question 2

Question 3

Question 4

Question 5

What is the output of the following code?

Selected Answer: (3 35, 78, 57

int *ptrA = numbers;

int *ptrB = ptrA + 2;

int *ptrC = ptrB + 1;

Answers:

Answers:

Answers:

What is a pointer in C?

What is the output of this code?

#define VALUE 10;

return 0;

Answers:

#include <stdio.h> int fun(int *num)

return (*num)--;

int num = 16;

return 0;

Answers:

char input[100];

Answers:

Answers:

Answers:

Question 7

Question 8

Question 9

Question 10

Question 11

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

Question 6

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

Selected Answer: (3) This code results in a compile-time error.

This code results in a compile-time error.

This code results in a run-time error

int x = 3 + VALUE;

printf("%d", x);

3 13

What is the output of the following code?

for(fun(&num); fun(&num); fun(&num))

13 10 7 4 1

15 12 9 6 3

What is the correct statement to input a string without whitespace? Assume the string input will be stored in this variable:

Selected Answer: 🔞 This statement causes a syntax error because the dimension does not match the number of elements given.

This statement causes a syntax error because the dimension does not match the number of elements given.

14 11 8 5 2

Selected Answer: 🔞 scanf("%s", &input);

What is the format specifier for a double?

%m

int a[10] = { 5, 7, 8, 9, 11 };

What is the output of this code?

int *ptrA = numbers + 3;

int *ptrB = ptrA + 1;

int *ptrC = ptrA - 1;

Selected Answer: 👩 66, 41, 78

Answers:

If N = 3, it should print

If N = 4, it should print

Selected Answer:

%If

%d

%с

What are the contents of the array after this declaration and initialization?

5, 7, 8, 9, 11

int numbers[] = { 35, 57, 78, 66, 41, 12 };

printf("%d, %d, %d\n", *ptrA, *ptrB, *ptrC);

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for (row = 1, row \le N; row++){ for $(i = 1; i \le N - row; i++){$

printf("*");//

printf(" ");//print whitespace

printf("\n");//newline after loop

void patternPrint(int N)

int i=0, j=0, k=0; for(i=0; i<N; i++)

printf("\n");

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scanf("%d", &N);//N taken as input parameter

for (i = 1; i <= 2 * row; i++){// # of stars per line

for (k=0; k<(N-i-1); k++)

Consider this block of code below. Trace the following code as explained in class. Show the starting address, the intermediate and final values of the variables. A

For each of the starting addresses S-1 to S-9, there is only one number, please write that down. However, for each of the variable values V-1 to V-9, there can be

more than one values (starting, intermediate and final). Write all of them down, separated by comma. For example, if V-4 has 3 values then write them down as V-4 =

variable of type 'int' takes 4 bytes and any pointer variable takes 8 bytes of space. Assume the starting address that is available is 1000 (calculate in decimal).

Starting address location is 1000 (calculate in decimal)

<u>Value</u>

V-1

V-2

V-3

V-4

V-5

V-6

V - 7

V-8

V-9

<u>Starting</u>

<u>Address</u>

S-1

S-2

S-3

S-4

S-5

S-6

S-7

S-8

S-9

• struct definition for **Product** which consists of 3 things: name (string of 10 characters), price (double value) and quantity (integer value)

products, **without** considering the quantity of each product. This average value will be returned back by the function.

• **fillProduct()** - The function will take in two parameters: array by reference and the length of the array. The function will not return anything. The function will

o calculateAveragePrice() - The function will take in two parameters: array by reference and the length of the array. It will calculate the average price of all

initialize all the quantity values to be equal to the (length - index) * 10 . The price values will be equal to (index * 2.5) . All product names should be initialized to

• totalPrice() - The function will take in three parameters: array by reference, length of the array, and the double totalPrice value passed as a pointer which will be

• fillProduct() - The function will take in two parameters: array by reference and the length of the array. The function will not return anything. The function will

• calculateAveragePrice() - The function will take in two parameters: array by reference and the length of the array. It will calculate the average price of all

products, **without** considering the quantity of each product. This average value will be returned back by the function.

initialize all the quantity values to be equal to the (length - index) * 10 . The price values will be equal to (index * 2.5) . All product names should be initialized to

• totalPrice() - The function will take in three parameters: array by reference, length of the array, and the double totalPrice value passed as a pointer which will be

updated with the calculated value. The function will not return anything. The **totalPrice** value should be updated to contain the weighted sum of the total price of

updated with the calculated value. The function will not return anything. The **totalPrice** value should be updated to contain the weighted sum of the total price of

You DON'T need to create a table for your answer. Just mention in each separate line, variable name = answer. For example,

<u>Variable</u>

<u>Name</u>

Χ

Z

arr[0]

arr[1]

arr[2]

arr[3]

arr[4]

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V-4 = 1020, 1024, 1028, 1032

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Write code for the struct header file named "**product.h**" that consists of the following:

all prices considering the quantity of each product as well.

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typedef struct Product

char name[10]; double price; int quantity;

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Write code for the struct source file named "**product.c**" that consists of the following:

all prices considering the quantity of each product as well.

void fillProducts(Product p[], int n)

p[i].price = i*2.5;

strcpy(p[i].name, "sample");

double calculateAveragePrice(Product p[], int n)

void totalPrice(Product p[], int n, double* totalPrice)

*totalPrice += (p[i].price * p[i].quantity);

Consider that the above Product files are already present and you are writing the code below in the main() function. Write code to for the following:

p[i].quantity = (n-i)*10;

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#include<stdio.h> #include<string.h> include"product.h"

int i=0;

for(i=0; i<n; i++)

double sum=0;

return sum/n;

*totalPrice = 0;

for(i=0; i<n; i++)

int i=0;

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• Create an integer N, which will be the number of products.

• Dynamically allocate memory for an array of N Product objects.

scanf("%d", &n);

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Product* p = (Product*)malloc(sizeof(Product)*n);

()

• Take the value of N from the user.

Response Feedback: [None Given]

[None Given]

int n=0;

Selected Answer:

Correct Answer:

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Response Feedback: [None Given]

Question 15

for(i=0; i<n; i++)

sum += p[i].price;

int i=0;

void fillProducts(Product[], int);

double calculateAveragePrice(Product[], int);

void totalPrice(Product[], int, double*);

} Product;

#endif;

• function definitions for the following 3 functions:

[None Given]

Response Feedback: [None Given]

• includes for the header files

"sample".

Selected Answer:

Correct Answer:

#ifndef PRODUCT H #define PRODUCT_H

[None Given]

S-1 = 1000S-2 = 1004S-3 = 1008S-4 = 1012S-5 = 1020S-6 = 1024S-7 = 1028S-8 = 1032S-9 = 1036

V-1 = 20V-2 = 30V-3 = 40

V-5 = 6, 10

V-8 = 3, 20

• function prototypes for the following 3 functions:

[None Given]

V-6 = 5V-7 = 4

 $\sqrt{V-9} = 2$

Response Feedback: [None Given]

"sample".

header guard

Selected Answer:

Correct Answer:

Question 13

Question 14

printf(" "); for(j=0; j<=i; j++) printf("* ");

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

int i; int N;

int row;

()

Response Feedback: [None Given]

int X = 20, Y = 30, Z = 40;

int arr $[5] = \{ 6, 5, 4, 3, 2 \};$

Question 12

1, 2, 3.

S-1 = 1

S-2 = 2

and so on...

int *p;

p = arr;

*p++ = 10;

p = &arr[2];

*++p = 20;

Selected Answer:

Correct Answer:

Write a **function definition** that prints the following pattern, based on the value for **N** taken as an input parameter.

//outer loop = rows count; next loop = whitespaces; last loop = stars

66, 41, 78

38, 56, 77

35, 57, 78

78, 66, 41

5, 7, 8, 9, 11, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 5, 7, 8, 9, 11

Selected Answer: 🚫 %lf

scanf("%ls", input);

scanf("%s", &input);

scanf("%ls", &input);

scanf("%s", input);

Infinite loop

printf("%d ", fun(&num));

Selected Answer: 🔞 Infinite loop

Answers:

int numbers[] = { 35, 57, 78, 66, 41, 12 };

printf("%d, %d, %d\n", *ptrA, *ptrB, *ptrC);

66, 78, 41

35, 78, 57

66, 35, 41

In vim, in Command mode, what does the letter j do?

Selected Answer: (3) Moves cursor up one line

Selected Answer: 🕜 Pass by value

Moves cursor down one line

Moves cursor up one line

Jumps to the next page

Pass by name

Pass by pointer

Pass by value

Pass by reference

Finds the first occurrence of the letter j

How are parameters passed by default when it comes to regular variables of primitive data types?

Selected Answer: 🕜 A variable that holds the memory address of another variable

A special variable that can be used to represent Boolean values in C

A variable that holds the memory address of another variable

A variable that holds multiple values

A primitive data type

35, 78, 66

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Browser Checker

0 out of 4 points

0 out of 4 points

4 out of 4 points

4 out of 4 points

0 out of 4 points

0 out of 4 points

0 out of 4 points

4 out of 4 points

0 out of 4 points

4 out of 4 points

Needs Grading

Needs Grading

Needs Grading

Needs Grading

Needs Grading (Extra Credit)