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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem solving through Programming In C (course)

Announcements (announcements) About the Course (https://swayam.gov.in/nd1_noc20_cs06/preview) Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

Unit 3 - Week 1

Course outline

How does an NPTEL online course work?

Week 0

Week 1

● Lecture 1 : Introduction (unit?unit=2&lesson=15)

● Lecture 2: Idea of Algorithms (unit? unit=2&lesson=16)

● Lecture 3: Flow Chart and Pseudocode (unit? unit=2&lesson=17)

● Lecture 4 : Introduction to Programming Language Concepts (unit? unit=2&lesson=18)

● Lecture 5 : Variables and Memory (unit? unit=2&lesson=19)

○ Quiz : Assignment 1 (assessment?name=93)

○ Feedback For Week 1 (unit? unit=2&lesson=96)

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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Assignment Solution

Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-02-12, 23:59 IST.

1) C language was developed by

1 point

- ☐ a) Dennis Ritchie (https://www.google.com/search?client=firefox-b-d&q=Dennis+Ritchie&stick=H4sIAAAAAAAAAAONgVuLQz9U3MLI0Nn7E6Mgt8PLHPWEpi0lrTl5jNOLiCs7.
- ☐ b) Bjarne Stroustrup
- ☐ c) James Gosling (https://www.google.com/search?client=firefox-b-d&q=James+Gosling&stick=H4sIAAAAAAAAAAONgVuLQz9U3SMkzjH_E6Mgt8PLHPWEpi0lrTl5jNOLiCs7I
- ☐ d) Guido van Rossum

No, the answer is incorrect.
Score: 0

Accepted Answers:

a) Dennis Ritchie (https://www.google.com/search?client=firefox-b-d&q=Dennis+Ritchie&stick=H4sIAAAAAAAAAAONgVuLQz9U3MLI0Nn7E6Mgt8PLHPWEpi0lrTl5jNOLiCs7IL3fN

2) A 2D diagram to represent the steps to be followed to solve a problem is known as

1 point

- ☐ a) Flow-chart
- ☐ b) Pseudo-code
- ☐ Both (a) and (b)
- ☐ d) None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:

a) Flow-chart

3) Which one of the following statement is the most appropriate?

1 point

- ☐ a) Flowchart is diagrammatic representation of the algorithm. Pseudo code is just another name of algorithm.
- ☐ b) Flowchart is basically a diagrammatic representation of the algorithm. Whereas in pseudo code normal English language is translated into the programming languages to be worked on.
- ☐ c) Pseudo code is basically a diagrammatic representation of the algorithm. Whereas in flowchart normal English language is translated into the programming languages to be worked on.
- ☐ d) Pseudo code is another name of programming. Whereas in flowchart is diagrammatic representation of algorithm.

No, the answer is incorrect.
Score: 0

Accepted Answers:

b) Flowchart is basically a diagrammatic representation of the algorithm. Whereas in pseudo code normal English language is translated into the programming languages to be worked on.

4) The ALU of a computer

1 point

- ☐ a) Can perform logical operation only
- ☐ b) Can perform arithmetic operation only
- ☐ c) Can perform both arithmetic and logical operations
- ☐ d) None of the above.

No, the answer is incorrect.
Score: 0

Accepted Answers:

c) *Can perform both arithmetic and logical operations*5) When we write $X=10$ and $Y=X$, which of the following memory assignment is correct

1 point

- ☐ a) X and Y will have same location and 10 will be stored.
- ☐ b) X and Y will have two distinct locations and 10 will be stored in both.
- ☐ c) X and Y will have same location and only X will contain value 10
- ☐ d) X and Y will have two distinct locations and only X will contain value 10

No, the answer is incorrect.

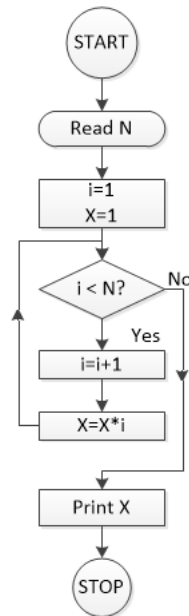
Score: 0

Accepted Answers:

b) *X and Y will have two distinct locations and 10 will be stored in both.*

6) If input from the user (for Read N) is 6, the output of the following algorithm will be

1 point



- ☐ a) 120
- ☐ b) 720
- ☐ c) 5040
- ☐ d) 1

No, the answer is incorrect.

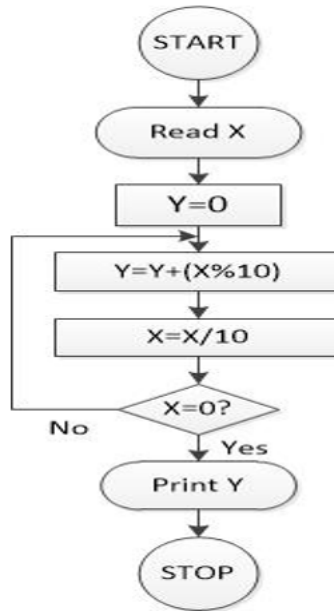
Score: 0

Accepted Answers:

b) *720*

- 7) X is an integer ($X=1234$). The print value of Y of the algorithm below is (note: '%' is the modulo operator, which calculates the remainder and '/' gives the quotient of a division operation)

1 point



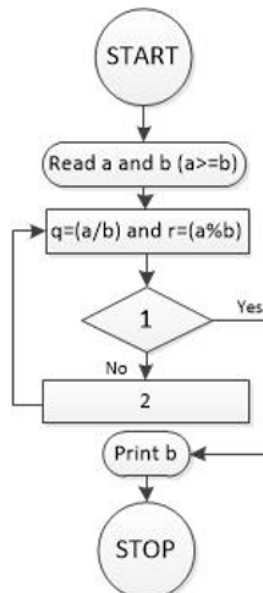
- ☐ a) 4321
- ☐ b) 10
- ☐ c) 4
- ☐ d) 9

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) 10

- 8) The flow chart calculates the HCF of two numbers **a** and **b** (where **a** is greater than or equal to **b**). Which of the following conditions need to be put inside the blanks 1 and 2 to calculate the HCF?

1 point



- ☐ a) 1. $r \neq 0$ 2. $a=r$ and $b=q$
- ☐ b) 1. $q=0$ 2. $a=b$ and $b=r$
- ☐ c) 1. $r=0$ 2. $a=q$ and $b=r$
- ☐ d) 1. $r=0$ 2. $a=b$ and $b=r$

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) 1. $r=0$ 2. $a=b$ and $b=r$

9) Compiler helps in the translation from

1 point

- ☐ a) Integer to binary
- ☐ b) High-level program to binary digits
- ☐ c) High-level language to machine level language
- ☐ d) Pseudo code to computer program

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) *High-level language to machine level language*

10) Computer memory which is used to store programs and data currently being processed by CPU is

1 point

- ☐ a) ROM
- ☐ b) RAM
- ☐ c) Cache memory
- ☐ d) PROM

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) *RAM*