

# Week 1 :Assignment 1

Your last recorded submission was on 2024-07-21, 21:51 IST

Due date: 2024-08-07, 23:59 IST.

Which of the following is a valid C variable name?

1 point

- ☐ a) 2variable
- ☐ b) variable\_2
- ☐ c) variable-2
- ☐ d) variable.2

Which of the following functions is used to read a single character from the keyboard in C?

1 point

- ☐ a) printf()
- ☐ b) scanf()
- ☐ c) getchar()
- ☐ d) puts()

What is the purpose of the #include directive in a C program?

1 point

- ☐ a) To include a library file.
- ☐ b) To include a library file.
- ☐ c) To define a constant.
- ☐ d) To start the main function.

Which of the following correctly describes the purpose of a compiler in C?

1 point

- ☐ a) To execute the program line by line.
- ☐ b) To convert source code into machine code.
- ☐ c) To provide a runtime environment for program execution.
- ☐ d) To interpret and run the program interactively.

Which of the following is true about the execution nature of C programs?

1 point

- ☐ a) C programs are executed in an event-based manner.
- ☐ b) C programs are executed concurrently.
- ☐ c) C programs are executed in a multi-threaded manner.
- ☐ d) C programs are executed sequentially.

In C programming, what is the best way to comment multiple lines?

1 point

- ☐ a) Using // at the beginning of each line.
- ☐ b) Enclosing the comments between /\* and \*/.
- ☐ c) Using # at the beginning of each line.
- ☐ d) Enclosing the comments between { and }.

Which of the following is a characteristic of the ASCII standard?

1 point

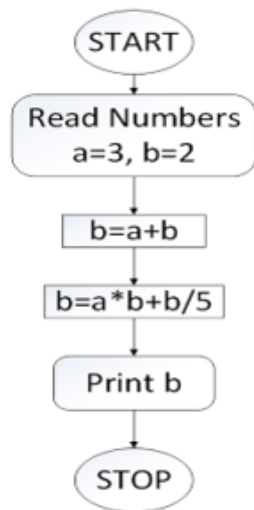
- ☐ a) It supports encoding for all the world's languages.
- ☐ b) It uses 16-bit encoding for characters.
- ☐ c) It is a 7-bit character encoding standard.
- ☐ d) None of the above.

Which of the following statements is true regarding variable declaration in C?

1 point

- ☐ a) Variables can be declared at any point in the program.
- ☐ b) Variables must be declared before they are used.
- ☐ c) Variables are automatically initialized to zero.
- ☐ d) Variable names can start with a digit.

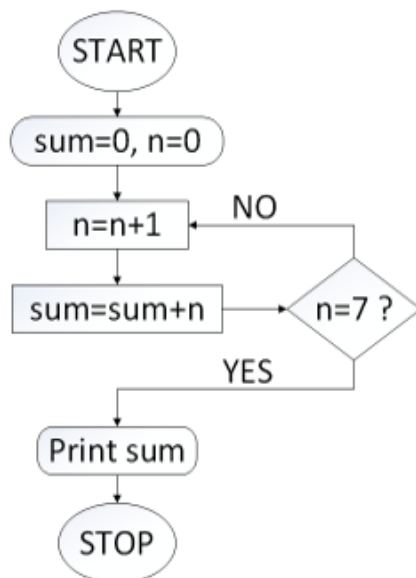
What will be the output of the flowchart given below?



- ☐ a) 4
- ☐ b) 8
- ☐ c) 16
- ☐ d) 20

1 point

The output of the following algorithm is



- ☐ a) 21
- ☐ b) 28
- ☐ c) 30
- ☐ d) 40