

Name

Date

Section 1: Draw one line to match most appropriate answer for each description.

Programming paradigm

Description

DECLARATIVE

Programs using the instruction set of a processor

IMPERATIVE

Programs using the concepts of class, inheritance, encapsulation and polymorphism

LOW - LEVEL

Programs that specify the desired result rather than how to get to it

OBJECT- ORIENTED

Programs based on events such as user actions or sensor outputs

Programs with an explicit sequence of commands that update the program state, with or without procedure calls

Section 2:

1/. State THREE essential features of recursion.

2/. Explain the reasons why a stack is a suitable Abstract Data Type (ADT) to implement recursion.

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3/. Identify two ADT;s other than a stack.

4/. Define these Object-Oriented Programming (OOP) Terms:

Encapsulation:

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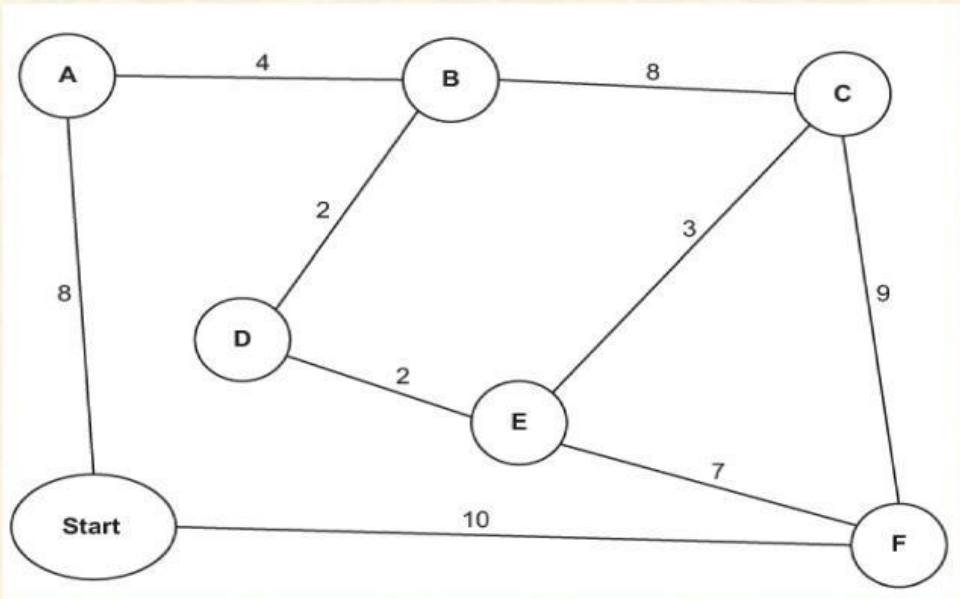
Getter:

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Setter:

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Section 3: Calculate the shortest distance between the START and each of the destinations in the diagram. Show your working.



SHOW YOUR WORKING

ANSWER

A	B	C	D	E	F