**Interface**

**Congnitive Type:Remember**

**Behaviour Descriptions**

A **software deleveper** was presented with following behaviour descriptions of an object during software training course: The object **deescribes what data structure does,can have multiple implementation, and provides specification about the type of supported operations** .

Select the **best** object(s) that exibit the above **behaviour description**.

1. Interface
2. Inplementation
3. Inheritance
4. Interface and Implementation
5. I
6. II
7. III
8. I,III

**Benefits**

**Behaviour Descriptions**

A **computer programmer** is considering implementing abstract data type which satisfy the folowing specifications : **allows dynmic swapping of implementation, have multiple implementation, allows polymophism**. The possible solution to satisfy the speciifcation are listed below

1. Implemenation
2. Interface
3. Inheritance

Which the above concept(s) is **best** for the programmer to apply

1. I
2. II
3. I,II
4. I,II,III

**Congnitive Type:Understand**

**Behaviour Descriptions**

A **computer science** students was tought in class that an interface can **defines method signatures and provides specification about the type of argument of the supported method**. **The inteface can also be used to achieve multiple inhertance**. The student was given a specification that an method M accepts integer as paramter and apply and an algorithm and reaturn an integer as the output. Three of the students presented their interface as follows

1. Student A : int M(int x)
2. Student B : M(int x)
3. Student C : int (int x)

Which of the student(s) provided the best **interface Specification**

1. I
2. II
3. III
4. I, II, III

**Congnitive Type:Application**

**Behaviour Descriptions**

A **software developer** considering designed and implemented **abstract data type (ADT)** to be use in software component to store data. The speficification rquired for the ADT was: **Allow multiple implementation**. Upon compiling the following error message was displayed : Only single inhiritance is supported. **The solutions** available to for the software developer to resolve this issue is as follows.

1. Interface
2. implementation
3. Composition

Select the best **software solution** the software developer has to apply to resolve the issue

1. I
2. II
3. III
4. I, II, III