

IB COMPUTER SCIENCE 2ND TERM 1ST QUIZ

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GRADE: 10

A chair company manufactures 20 different kinds of candy, each identified by a product_ID. An array, Product_Id, is used to store the product IDs, and another array, Unit_Price is used to store the price per unit of each type of chair. The unit price of the product identified by Product_Id[N] is equal to Unit_Price[N] for any index N.

- a) Construct an algorithm that calculate the average unit price. [5]

```
int averagePrice = 0;
for (int price : Unit_Price)
{
    averagePrice += price;
}
averagePrice /= Unit_Price.length;
```

- b) Construct an algorithm that will output the price of a chair after its product Id is entered by the user. The algorithm should output an appropriate message if the ID entered does not appear in the array Prodcut_Id. [5]

```
Scanner sc = new Scanner(System.in);
System.out.println("Enter product id: ");
int id = sc.nextInt();
int index = 0;
while (index < Product_Id.length)
{
    if (Product_Id[index] == id)
    {
        break;
    }
    index++;
}
System.out.println(Unit_Price[index]);
```

ANSWERS

Please write or copy paste your answer here! Another document will not be accepted!

