**小 测 试**

学号： 姓名：

一、针对**样例SalerReward**，回答以下问题或设计测试用例并加以说明

1） 请继续填写并完成以下Def-Use表

|  |  |  |
| --- | --- | --- |
| **变量名** | **定义节点** | **使用节点** |
| **apple** | ***21*** | ***22*** |
| **huawei** | ***21*** | ***23*** |
| **xiaomi** | ***21*** | ***24*** |
| appleProfit |  |  |
| huaweiProfit |  |  |
| xiaomiProfit |  |  |
| day |  |  |
| applePrice |  |  |
| huaweiPrice |  |  |
| xiaomiPrice |  |  |
| totalApple |  |  |
| totalHuawei |  |  |
| totalXiaomi |  |  |
| appleSales |  |  |
| huaweiSales |  |  |
| xiaomiSales |  |  |
| totalSales |  |  |
| totalProfits |  |  |
| profitRate |  |  |
| reward |  |  |

2） 根据程序片测试的方法，请写出以下变量的程序切片

**totalApple：**

**reward:**

**profitRate:**

**huaweiSales：**

二、针对**样例SalerReward**，回答以下问题。

1） 请画出相应的DD-路径图

2） 请计算出基本路径的数量，并给出所有基本路径

**样例SalerReward**

*以下是一个销售人员评比的示例代码，代码中的数值与名称纯属虚构，仅用于试题*

1. Program SalerReward (INPUT,OUTPUT)
2. Dim apple, huawei, xiaomi As Integer
3. Dim day As Integer
4. Dim applePrice, huaweiPrice, xiaomiPrice As Double
5. Dim appleProfit, huaweiProfit, xiaomiProfit As Double
6. Dim totalApple, totalHuawei, totalXiaomi As Interger
7. Dim appleSales, huaweiSales, xiaomiSales As Interger
8. Dim totalSales, totalProfits, profitRate As Double
9. Dim reward As String
10. applePrice = 10,000
11. huaweiPrice = 5,000
12. xiaomiPrice = 2,000
13. appleProfit = 3,000 // rate = 30%
14. huaweiProfit = 1,000 //rate = 20%
15. xiaomiProfit = 200 // rate = 10%
16. totalApple = 0
17. totalHuawei = 0
18. totalXiaomi = 0
19. day = 1
20. While (day <=30)
21. Input(apple, huawei, xiaomi)
22. totalApple = totalApple + apple
23. totalHuawei = totalHuawei + huawei
24. totalXiaomi = totalXiaomi + xiaomi
25. day = day + 1
26. EndWhile
27. Output("Apple sold: ", totalApple)
28. Output("Huawei sold: ", totalHuawei)
29. Output("Xiaomi sold: ", totalXiaomi)
30. appleSales = applePrice \* totalApple
31. huaweiSales = huaweiPrice \* totalHuawei
32. xiaomiSales = xiaomiPrice \* totalXiaomi
33. totalSales = appleSales + huaweiSales + xiaomiSales
34. Output("Total sales: ", totalSales)
35. totalProfits = appleProfit \* totalApple +

huaweiProfit \* totalHuawei +

xiaomiProfit \* totalXiaomi

1. profitRate = totalProfits / totalSales // 计算利润率
2. Output("Total profits: ", totalProfits)
3. If (totalSales >= 100,000)
4. Then
5. If (profitRate >= 0.2)
6. Then
7. reward = "Diamond"
8. Else If (profitRate < 0.2 && profitRate >= 0.15)
9. Then
10. reward = "Gold"
11. Else
12. reward = "Silver"
13. Endif
14. Else If (totalSales < 100,000 && totalSales >= 60,000)
15. Then
16. If (profitRate >= 0.2)
17. Then
18. reward = "Gold"
19. Else
20. reward = "Silver"
21. Endif
22. Else If (profitRate >= 0.2)
23. Then
24. reward = "Silver"
25. Else
26. reward = "No Reward"
27. Endif
28. Output("Reward is: ", reward)
29. End SalerReward