VIT - Vellore

Name: RONIT MEXSON .
Email: ronit.mexson2024@vitstudent.ac.in
Roll no: 24BAI0036
Phone: 9999999999
Branch: ARUMUGA ARUN R_OOPS
Department: admin
Batch: VL2024250502365
Degree: admin

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BCSE102P_VL2024250502365_ASSESSMENT_SET 3

BCSE102P_VL2024250502365_Midterm_ Set 3

Attempt : 1
Total Mark : 20
Marks Obtained : 0

Section 1 : Coding

1. Problem Statement

A retail store is preparing for a promotional sales event where they want to create unique product bundles that sum up to a specific target price. The marketing team wants to find all unique product price pairs that total the target promotional value, ensuring that each bundle is offered only once to avoid duplication.

The goal is to identify these unique price pairs efficiently, considering scenarios where the same price appears multiple times in the list and handling cases with negative values (representing discounts or refunds).

Answer

```
// You are using GCC
#include<stdio.h>
```

```
int main(){
    int n, target;
    scanf("%d %d",&n,&target);
    int arr[n];
    for(int i = 0; i < n; i++){
        scanf("%d",&arr[i]);
    }
    //Printing Unique Elements
    for(int i = 0; i < n-1; i++)
    {
        for(int j = 1; j < n; j++)
        {
            if(arr[i] + arr[j] == target)
            {
                if(arr[i],arr[j] != arr[j],arr[i])
                {
                    printf("(%d, %d)\n",arr[j],arr[i]);
                    break;
                }
            }
        }
    }
}
```

Status : Wrong ***Marks : 0/10***

2. Problem Statement

In a school system, the objective is to manage student information, including their subjects and marks, to calculate the average marks for each student. The system must store multiple students, each with their own set of subjects and associated marks, and then display detailed information about each student, including their average marks.

Answer

```
// You are using GCC
#include<stdio.h>
#include<string.h>
int main(){
```

```
    char student_name[50];
    int roll_no,roll_no_1,roll_no_2;
    float phy_marks;
    float math_marks;
    float chem_marks;

    scanf("%s "&student_name);
    scanf("%d",&roll_no);

    scanf("%f",&math_marks);
    scanf("%f",&phy_marks);
    scanf("%f",&chem_marks);

    scanf("%d \n%d",&roll_no_1,&roll_no_2);

    while(roll_no_1 == -1 && roll_no_2 == -1){
       if(math_marks!=0&&chem_marks!=0&&phy_marks!=0)
       {
          printf("Student: %s, Roll No: %d \nMath: %.2f, Physics: %.2f, Chemistry:
%.2f,\nAverage Marks:
%.2f",student_name,roll_no,math_marks,phy_marks,chem_marks,(phy_marks
+chem_marks+math_marks)/3.00);
       }
       else if(math_marks!=0&&chem_marks==0&&phy_marks==0)
       {
          printf("Student: %s, Roll No: %d \nMath: %.2f,\nAverage Marks:
%.2f",student_name,roll_no,math_marks,math_marks);
       }
       else if(math_marks==0&&chem_marks==0&&phy_marks!=0)
       {
          printf("Student: %s, Roll No: %d \nPhysics: %.2f,\nAverage Marks:
%.2f",student_name,roll_no,phy_marks,phy_marks);
       }
       else if(math_marks==0&&chem_marks!=0&&phy_marks==0)
       {
          printf("Student: %s, Roll No: %d \nChemistry: %.2f,\nAverage Marks:
%.2f",student_name,roll_no,chem_marks,chem_marks);
       }
       else if(math_marks!=0&&chem_marks!=0&&phy_marks==0)
       {
          printf("Student: %s, Roll No: %d \nMath: %.2f,Chemistry Marks: %.2f,
\nAverage Marks: %.2f",student_name,roll_no,math_marks,chem_marks,
```

```
(math_marks+chem_marks)/2.0);
        }
        else if(math_marks!=0&&chem_marks==0&&phy_marks!=0)
        {
            printf("Student: %s, Roll No: %d \nMath: %.2f,Physics Marks: %.2f,
\nAverage Marks: %.2f",student_name,roll_no,math_marks,phy_marks,
(math_marks+phy_marks)/2.0);
        }
        else
        {
            printf("Student: %s, Roll No: %d \nPhysics marks: %.2f,Chemistry Marks:
%.2f,\nAverage Marks: %.2f",student_name,roll_no,phy_marks,chem_marks,
(phy_marks+chem_marks)/2.0);
        }
    }
    return 0;
}
```

Status : Wrong **Marks : 0/10**