//IT20133672
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//Mid Assignment

"SATHNAAD20" musical show Organized by LEO CLUB of Mahanama College at College Main Auditorium. The main purpose of this show to earn **Profit** to the Leo Club to do next year Projects. (so, they didn't care about count of attendance crowed and the seats of the auditorium)

All the costs of the Show recovered by "Show Tickets" and all the tickets are sold at the show night in Auditorium. The Seat types and Their ticket Prices are given in the following table

Seat Type	Seat Name	Ticket Price (RS.)
1	Front Seats	2,000
2	Back Seats	1,500
3	Balcony Seats	1,000

Write a C program to get Income of the Musical Show by Entering Ticket Prices according to Seat Types. When the seat type is invalid, the program should display an error message.

Your program should display **Total Income** and if total income gets more than 10,000(RS.) display

"**WE MADE A PROFIT AS WE EXPECTED**"

```c
#include <stdio.h>//include header file

int main(void)//begins main function
{
    //declare variables
    int totalIncome=0;
    int seatType,qty;
    int price,ticketPrice;
    char ch ='Y';

    while(ch=='Y'||ch=='y')//loop
    {
     printf("PLEASE ENTER THE SEAT TYPE(only 1,2,3):");
     scanf(" %d", &seatType);//read a decimal integer
     if(seatType==1|| seatType==2|| seatType==3)
     {
        //inputs and calculations
        printf("PLEASE ENTER THE QUANTITY:");
        scanf(" %d", &qty);//read a decimal integer
        if(seatType==1)
               ticketPrice=2000;
         else if(seatType==2)
                    ticketPrice=1500;
             else
                      ticketPrice=1000;
        price =ticketPrice * qty;//calculation
        printf("SEAT TYPE    QUANTITY   PRICE\n");
        printf("%d            %d          %d\n",seatType,qty,price);

        totalIncome =totalIncome + price;//calculation
     }
      else
          printf("INVALID SEAT TYPE\n");

     printf("Do YOU WANT MORE ENTIRES(Y/N):");
     scanf("%*c%c", &ch);//read a character

    }
      printf("TOTAL INCOME EARN FROM THE SHOW = RS%d\n",totalIncome);//print total
      if(totalIncome>10000)
          printf("WE HAVE MADE A PROFIT AS WE EXPECTED\n");
       else
          printf("WE HAVEN'T MADE A PROFIT AS WE EXPECTED\n");
    return 0;//end of main function
}
```

TEST CASE 1: When the Income gets More than RS 10,000

```
PLEASE ENTER THE SEAT TYPE(only 1,2,3):1
PLEASE ENTER THE QUANTITY:3
Do YOU WANT MORE ENTIRES(Y/N):y
PLEASE ENTER THE SEAT TYPE(only 1,2,3):2
PLEASE ENTER THE QUANTITY:2
Do YOU WANT MORE ENTIRES(Y/N):y
PLEASE ENTER THE SEAT TYPE(only 1,2,3):3
PLEASE ENTER THE QUANTITY:2
Do YOU WANT MORE ENTIRES(Y/N):n
```

TEST CASE 2: When the Income gets Less than RS 10,000

```
PLEASE ENTER THE SEAT TYPE(only 1,2,3):2
PLEASE ENTER THE QUANTITY:2
Do YOU WANT MORE ENTIRES(Y/N):y
PLEASE ENTER THE SEAT TYPE(only 1,2,3):1
PLEASE ENTER THE QUANTITY:2
Do YOU WANT MORE ENTIRES(Y/N):y
PLEASE ENTER THE SEAT TYPE(only 1,2,3):5
INVALID SEAT TYPE
PLEASE ENTER THE SEAT TYPE(only 1,2,3):n
```

Program output (Screen shot of the program output)
TEST CASE 1:


```
PLEASE ENTER THE SEAT TYPE(only 1,2,3):1
PLEASE ENTER THE QUANTITY:3
SEAT TYPE    QUANTITY   PRICE
1            3          6000
Do YOU WANT MORE ENTIRES(Y/N):y
PLEASE ENTER THE SEAT TYPE(only 1,2,3):2
PLEASE ENTER THE QUANTITY:2
SEAT TYPE    QUANTITY   PRICE
2            2          3000
Do YOU WANT MORE ENTIRES(Y/N):y
PLEASE ENTER THE SEAT TYPE(only 1,2,3):3
PLEASE ENTER THE QUANTITY:2
SEAT TYPE    QUANTITY   PRICE
3            2          2000
Do YOU WANT MORE ENTIRES(Y/N):n
TOTAL INCOME EARN FROM THE SHOW = RS11000
WE HAVE MADE A PROFIT AS WE EXPECTED
```

TEST CASE 2:

```
PLEASE ENTER THE SEAT TYPE(only 1,2,3):2
PLEASE ENTER THE QUANTITY:2
SEAT TYPE    QUANTITY   PRICE
2            2          3000
Do YOU WANT MORE ENTIRES(Y/N):y
PLEASE ENTER THE SEAT TYPE(only 1,2,3):1
PLEASE ENTER THE QUANTITY:2
SEAT TYPE    QUANTITY   PRICE
1            2          4000
Do YOU WANT MORE ENTIRES(Y/N):y
PLEASE ENTER THE SEAT TYPE(only 1,2,3):5
INVALID SEAT TYPE
Do YOU WANT MORE ENTIRES(Y/N):n
TOTAL INCOME EARN FROM THE SHOW = RS7000
WE HAVEN'T MADE A PROFIT AS WE EXPECTED
```