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#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
{
    float x[10],y[10],sum=0,h,temp;
    int i,n,j,k=0,l=0;
    float fact(int);
    clrscr();
    printf("\nhow many record you will be enter: ");
    scanf("%d",&n);
    for(i=0; i<n; i++)
    {
        printf("\n\nenter the value of x%d: ",i);
        scanf("%f",&x[i]);
        printf("\n\nenter the value of f(x%d): ",i);
        scanf("%f",&y[i]);
    }
    h=x[1]-x[0];
    n=n-1;
    sum = sum + y[0];
    for(i=1;i<n;i++)
    {
        if(k==0 || l==0)
        {
            sum = sum + 3 * y[i];
            if(k==1)
            {
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                l=1;
            }
            k=1;
        }
        else
        {
            sum = sum + 2 * y[i];
            k=0;
            l=0;
        }
    }
    sum = sum + y[i];
    sum = sum * (3*h/8);
    printf("\n\n I = %f ",sum);
    getch();
}
```

how many record you will be enter: 3

enter the value of x0: 1

enter the value of f(x0): 3

enter the value of x1: 2

enter the value of f(x1): 4

enter the value of x2: 2

enter the value of f(x2): 6

I = 7.875000