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//discrete frequency distribution methods
#include<stdio.h>
int main()
{
    int a;
    int counter;
    int total=0;
    printf("enter howmany data ?\n");
    scanf("%d",&a);
    int rec[a],rec2[a];
    for(int i=0;i<a;i++)
    {
        scanf("%d",&rec[i]);
    }
    for(int i=0;i<a-1;i++)
    {
        for(int j=i+1;j<a;j++)
        {
            if(rec[i]>rec[j])
            {
                int temp=rec[i];
                rec[i]=rec[j];
                rec[j]=temp;
            }
        }
    }
    for(int i=0;i<a;i++)
    {
        printf("\n%d",rec[i]);
    }
    int lowest=rec[0];
    int higest=rec[a-1];
    int low=lowest;
    int high=higest;
    printf("\nlowest : %d\n",lowest);
    printf("higest : %d\n",higest);
    int count=0;
    for(int i=lowest;i<=higest;i++)
        count++;
    printf("\n\n%d\n\n",count);
    int n2[count],n[count];
    for(int i=0;i<count;i++)
    {
        n2[i]=lowest;
        lowest++;
    }
    for(int j=0;j<count;j++)
    {
        counter=0;
        for(int i=0;i<a;i++)
        {
            if(n2[j]==rec[i])

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        counter++;

    }
    n[j]=counter;
}
printf("class");printf(" frequency");
for(int i=0;i<count;i++)
{
    printf("\n%d",n2[i]);
    printf("      %d\n",n[i]);
}
printf("total :");
for(int i=0;i<count;i++)
{
    total=total+n[i];
}
printf("      %d\n",total);
}
```