```c
//find mean continuous exclusive methods
#include<stdio.h>
int main()
{
        int a,interval;
        printf("\n enter howmany class ? \n");
        scanf("%d",&a);
        printf("\n enter intervaal between two classes : \n");
        scanf("%d",&interval);
        int rec[a],rec2[a];
        printf("\n enter classes : \n");
        for(int i=0;i<a;i++)
        {
                scanf("%d",&rec[i]);
        }
        for(int i=0;i<a;i++)
        {
                rec2[i]=rec[i]+interval;
        }
        int fre[a];
        printf("\n enter frequency : \n");
        for(int i=0;i<a;i++)
        {
                scanf("%d",&fre[i]);
        }
        float xi[a];
        for(int i=0;i<a;i++)
        {
                xi[i]=(rec[i]+rec2[i])/2;
        }
        float fixi[a];
        for(int i=0;i<a;i++)
        {
                fixi[i]=fre[i]*xi[i];
        }
        int d;
        printf("enter the A value :\n");
        scanf("%d",&d);
        float di[a];
        for(int i=0;i<a;i++)
        {
                di[i]=xi[i]-d;
        }
        float fidi[a];
        float fd=0;
        for(int i=0;i<a;i++)
        {
                fidi[i]=fre[i]*di[i];
                fd=fd+fidi[i];
        }
        float ui[a];
        for(int i=0;i<a;i++)
```

```c
        {
                ui[i]=(xi[i]-d)/interval;
        }
        float fiui[a];
        float fu=0;
        for(int i=0;i<a;i++)
        {
                fiui[i]=fre[i]*ui[i];
                fu=fu+fiui[i];
        }
        float total=0;
        int sum=0;
        for(int i=0;i<a;i++)
        {
                total=total+fixi[i];
                sum=sum+fre[i];
        }
        printf("\nclass  freq   xi  fixi di=x-%d  fidi  ui=x-%d/%d   fiui \n",d,d,interval);
        for(int i=0;i<a;i++)
        {
                printf("%d-%d\t%d\t%.1f\t%.1f\t%.1f\t%.1f\t%.1f\t\t%.1f\
n",rec[i],rec2[i],fre[i],xi[i],fixi[i],di[i],fidi[i],ui[i],fiui[i]);
        }
        printf("total:\tfi\t\tfixi\t\tfidi\t\t\tfiui\n");
        printf("\t%d\t\t%.1f\t\t%.1f\t\t\t%.1f\n",sum,total,fd,fu);
        float mean;
        mean=(float)total/sum;
        printf("\n mean= fixi / fi \n");
        printf("      =%.1f / %d\n",total,sum);
        printf("   mean=%.1f",mean);
        float mean2;
        mean2=d+(float)fd/sum;
        printf("\n");
        printf("\n mean=A +(fixi / fi) \n");
        printf("      =%d + ( %.1f / %d\n ) ",d,total,sum);
        printf("   mean=%.1f\n",mean2);
        float mean3;
        float u;
        printf("\n");
        u=fu/sum;
        printf("u = fiui / n");
        printf("\n  = %.1f / %d ",fu,sum);
        printf("\nu=%.1f",u);
        mean3=d+(interval*u);
        printf("\n");
        printf("\n mean=A +(c * u) \n");
        printf("      =%d + ( %d * %.1f\n ) ",d,interval,u);
        printf("   mean=%.1f",mean3);
}


o/p:
```

enter howmany class ?
6

 enter intervaal between two classes :
10

 enter classes :
0
10
20
30
40
50

 enter frequency :
5
10
25
30
20
10
enter the A value :
45

class	freq	xi	fixi	di=x-45	fidi	ui=x-45/10	fiui
0-10	5	5.0	25.0	-40.0	-200.0	-4.0	-20.0
10-20	10	15.0	150.0	-30.0	-300.0	-3.0	-30.0
20-30	25	25.0	625.0	-20.0	-500.0	-2.0	-50.0
30-40	30	35.0	1050.0	-10.0	-300.0	-1.0	-30.0
40-50	20	45.0	900.0	0.0	0.0	0.0	0.0
50-60	10	55.0	550.0	10.0	100.0	1.0	10.0
total:	fi		fixi		fidi		fiui
total:	100		3300.0		-1200.0		-120.0

 mean= fixi / fi
     =3300.0 / 100
   mean=33.0

 mean=A +(fixi / fi)
     =45 + (3300.0 / 100
)   mean=33.0

u = fiui / n
  = -120.0 / 100
u=-1.2

 mean=A +(c * u)
     =45 + (10 * -1.2
)   mean=33.0