Code:

#include<bits/stdc++.h>

using namespace std;

int main(){

int arr[10]={14,23,32,41,50,59,68,77,86,95};

int fre[10]={2,3,5,6,8,11,9,8,6,2};

float mean,sd;

int count=0;

float sum=0;

for(int i=0;i<10;i++)

{

sum=arr[i]\*fre[i];

count+=fre[i];

}

mean=sum/count;

sum=0;

for(int i=0;i<10;i++)

{

sum+=fre[i]\*pow(arr[i]-mean,2);

}

sd=sqrt(sum/(count-1));

cout<<"standard deviation is "<<sd;

}

Output:

