1. Write a C program which can input five students marks in three courses and display the average marks of each student.

Sample Input

60 70 80

40 50 60

80 85 90

90 90 93

80 80 80

Sample Output

70

50

85

91

80

#include<stdio.h>

#include<math.h>

int main()

{

int x[5][3],i,j,m;

float avg;

printf("Enter the marks one by one:\n");

for(i=0; i<5; i++)

{

for(j=0; j<3; j++)

{

scanf("%d",&x[i][j]);

}

}

printf("The average marks of each student:\n");

for(i=0; i<5; i++)

{

m=0;

for(j=0; j<3; j++)

{

m=m+x[i][j];

}

avg=m/3.0;

printf("%.2f\n",avg);

}

return 0;

}

2. Write a C program which can input five students marks in three courses and display whether student pass in all courses (60 is pass marks)

Sample Input

60 70 80

40 50 60

80 85 50

90 90 93

80 80 80

Sample Output

Yes

No

No

Yes

Yes

#include<stdio.h>

#include<math.h>

int main()

{

int x[5][3],i,j,m;

printf("Enter the marks one by one:\n");

for(i=0; i<5; i++)

{

for(j=0; j<3; j++)

{

scanf("%d",&x[i][j]);

}

}

printf("The list of student's who pass in all courses:\n");

for(i=0; i<5; i++)

{

m=0;

for(j=0; j<3; j++)

{

if(x[i][j]>=60)

{

m++;

}

}

if(m==3)

{

printf("Yes\n");

}

else if(m<3)

{

printf("No\n");

}

}

return 0;

}

3. Write a C program which can input four cities temperature for last four days and display in how many days for each city temperature is higher than previous day

Sample Input

20 27 28 22

12 22 12 20

22 24 25 33

33 30 30 22

Sample Output

2

2

3

0

#include<stdio.h>

#include<math.h>

int main()

{

int x[4][4],i,j,m,n;

printf("Enter the temperature one by one:\n");

for(i=0; i<4; i++)

{

for(j=0; j<4; j++)

{

scanf("%d",&x[i][j]);

}

}

printf("Total Temperature is higher than previous day:\n");

for(i=0; i<4; i++)

{

m=x[i][0];

n=0;

for(j=0; j<4; j++)

{

if(x[i][j]>m)

{

n++;

}

}

printf("%d\n",n);

}

return 0;

}

4. Write a C program which can four cities temperature for last four days and display the difference between the highest and lowest temperature for each city

Sample Input

20 27 28 22

12 22 12 20

22 24 25 33

33 30 30 29

Sample Output

8

10

11

4

#include<stdio.h>

#include<math.h>

int main()

{

int x[4][4],i,j,m,n,p,q,r;

printf("Enter the temperature one by one:\n");

for(i=0; i<4; i++)

{

for(j=0; j<4; j++)

{

scanf("%d",&x[i][j]);

}

}

printf("The difference between the highest and lowest temperature for each city:\n");

for(i=0; i<4; i++)

{

n=0;

p=400;

for(j=0; j<4; j++)

{

if(x[i][j]>n)

{

n = x[i][j];

}

if(x[i][j]<p)

{

p = x[i][j];

}

}

r = n-p;

printf("%d\n",r);

}

return 0;

}

5. Write a C program which can four cities temperature for last four days and display average of the difference between the highest and lowest temperature of all cities

Sample Input

20 27 28 22

12 22 12 20

22 24 25 33

33 30 30 29

Sample Output

8.25

#include<stdio.h>

#include<math.h>

int main()

{

int x[4][4],i,j,m,n,p,q,r;

float avg;

printf("Enter the temperature one by one:\n");

for(i=0; i<4; i++)

{

for(j=0; j<4; j++)

{

scanf("%d",&x[i][j]);

}

}

avg=0;

for(i=0; i<4; i++)

{

n=0;

p=400;

for(j=0; j<4; j++)

{

if(x[i][j]>n)

{

n = x[i][j];

}

if(x[i][j]<p)

{

p = x[i][j];

}

}

r = n-p;

avg= avg+ r;

}

avg=(float)avg/4;

printf("Average of the difference between the highest and lowest temperature of all cities: %.2f\n",avg);

return 0;

}