

Write a program to find sum as Y of the following series excluding prime numbers in the series.

$$Y = 1 + \frac{1^2}{1!} + \frac{2^2}{2!} + \frac{3^2}{3!} + \dots + \frac{10^2}{10!}$$

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
int main()
{
    float y=2.0,f=1.0;
    int i,j,c;
    for (i=2;i<=10;i++)
    {
        f=f*i;
        c=0;
        for(j=2;j<i;j++)
        {
            if(i%j==0)
            {
                c=c+1;
                break;
            }
        }
        if(c!=0)
        {
            y=y+pow(i,2)/f;
        }
    }
    printf("sum= %f",y);
}
```