

problem: given x we should find the first natural no i whose factorial is divisible by x

solution:

pseudo code in c:

```
fac=1;
for(int i=1;;i++)
{
    fac=fac*i;
    if(fac%x==0)
    {
        ans=i;
        break;
    }
    i++;
}
```

sample input and output:

input output(in r11)

6	3
11	11
8	4
7	7
3	3

overflow:

for 64 bit 21! will overflow  
for 32 bit 13! will overflow  
for 16 bit 9! will overflow  
for 8 bit 7! will overflow  
eg:if you give x as 23 then it will overflow