```
#include <stdio.h>
//test2
unsigned long factorial (unsigned short num);
int main(void)
{
    unsigned short num=1;
    while (num<=21)</pre>
        printf("2u! = \frac{1u}{n}", num, num*factorial(num-1));
        num++;
    return 0;
}
unsigned long factorial (unsigned short num)
/*Finds the factorial of an unsigned short \underline{num}
    Returns factorial result as unsigned long*/
{
    if (num<=1)
        return 1;
    else
        return num*factorial(num-1);
}
```