

牛客多校第七场

B

GCD的递归。比较难的C语言练习。

```
#include<stdio.h>

long long int t, tmp, ans[20005], top = 1;

long long gcd(long long a, long long b)
{
    return b ? gcd(b, a % b) : a;
}

void solve(long long int n, long long int m, long long int res)
{
    if(n > m)
    {
        tmp = m;
        m = n;
        n = tmp;
    }
    if(res == 0)
    {
        return;
    }
    long long int k = m - m % n;
    while(k--)
    {
        ans[top++] = n;
    }
    solve(n, m % n, n * (m % n));
    return;
}

int main()
{
    scanf("%d", &t);
    while(t--)
    {
        long long n, m;
        top = 1;
        scanf("%lld%lld", &n, &m);
        solve(n, m, n * m);
        long long l = n + m - gcd(n, m);
        printf("%lld\n", l);
    }
}
```

```
    int i;  
    for(i=1;i<=l;i++)  
    {  
        printf("%lld ",ans[i]);  
    }  
    printf("\n");  
}  
}
```

D

水。

```
#include<stdio.h>  
#include<math.h>  
  
int main()  
{  
    int k;  
    scanf("%d",&k);  
    while(k--)  
    {  
        int n;  
        scanf("%d",&n);  
        if(n==1||n==24)  
        {  
            printf("Fake news!\n");  
        }  
        else  
        {  
            printf("Nobody knows it better than me!\n");  
        }  
    }  
    return 0;  
}
```

H

数论分块。注意先加上模再取模。

```
#include<stdio.h>  
  
long long int n, k, r, l, cnt, cnt1;  
  
int main()
```

```
{
scanf("%lld%lld", &n, &k);
if(k > n)
{
cnt1 = (cnt1 + k - n + 1000000007) % 1000000007;
}
k=n<k?n:k;
for(l = 1ll; l <= k; l = r + 1ll)
{
if(n / l)
{
r = n/(n/l);
}
else
{
r = k;
}
r=r<k?r:k;
cnt = (cnt + (r - l + 1ll) * (n / l) + 1000000007) % 1000000007;
if(n % r == 0ll)
{
cnt1 = (cnt1 + r - l + 1000000007) % 1000000007;
}
else
{
cnt1 = (cnt1 + r - l + 1ll + 1000000007) % 1000000007;
}
}
cnt = (2ll * cnt - n + 1000000007) % 1000000007;
printf("%lld\n", (cnt + cnt1 + 1000000007) % 1000000007);
}
```

J

以下是补题。

[小型代码分析系统的实现方式](#)

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