

# 牛客多校第七场

## B

GCD的递归。比较难的C语言练习。

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```
#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");  
}  
}
```

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