

错题集 1

1 Fake Maxpooling

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题意

给定一个 $n \times m$ 矩阵 $a_{i,j} = \text{lcm}(i,j)$ 设 $f(i,j) = \{\max a_{x,y} \mid i \leq x \leq i+k, j \leq y \leq j+k\}$ 求

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#include <iostream>
#include <cstdio>
#include <cstdlib>
#include <algorithm>
#include <string>
#include <sstream>
#include <cstring>
#include <cctype>
#include <cmath>
#include <vector>
#include <set>
#include <map>
#include <stack>
#include <queue>
#include <ctime>
#include <cassert>
#define _for(i,a,b) for(int i=(a);i<(b);++i)
#define _rep(i,a,b) for(int i=(a);i<=(b);++i)
#define mem(a,b) memset(a,b,sizeof(a))
using namespace std;
typedef long long LL;
inline int read_int(){
    int t=0;bool sign=false;char c=getchar();
    while(!isdigit(c)){sign|=c=='-';c=getchar();}
    while(isdigit(c)){t=(t<<1)+(t<<3)+(c&15);c=getchar();}
    return sign?-t:t;
}
inline LL read_LL(){
    LL t=0;bool sign=false;char c=getchar();
    while(!isdigit(c)){sign|=c=='-';c=getchar();}
    while(isdigit(c)){t=(t<<1)+(t<<3)+(c&15);c=getchar();}
    return sign?-t:t;
}
inline char get_char(){
    char c=getchar();

```

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while(c==' '||c=='\n' ||c=='\r')c=getchar();
return c;
}
inline void write(LL x){
register char c[21],len=0;
if(!x)return putchar('0'),void();
if(x<0)x=-x,putchar('-');
while(x)c[++len]=x%10,x/=10;
while(len)putchar(c[len--]+48);
}
inline void space(LL x){write(x),putchar(' ');}
inline void enter(LL x){write(x),putchar('\n');}
const int MAXN=5005;
int a[MAXN][MAXN],b[MAXN][MAXN],que[MAXN];
int main()
{
int n=read_int(),m=read_int(),k=read_int(),u,v;
_rep(i,1,n)
_rep(j,1,m){
if(!a[i][j]){
for(int k=1;k*i<=n&&k*j<=m;k++)
a[i*k][j*k]=i*j*k;
}
}
_rep(i,1,n){
int front=1,tail=0;
_for(j,1,k){
while(front<=tail&&a[i][que[front]]<=a[i][j])front++;
que[++tail]=j;
}
_rep(j,k,m){
while(front<=tail&&j-que[front]>=k)front++;
while(front<=tail&&a[i][que[front]]<=a[i][j])front++;
que[++tail]=j;
b[i][j]=a[i][que[front]];
}
}
LL sum=0;
_rep(j,k,m){
int front=1,tail=0;
_for(i,1,k){
while(front<=tail&&b[que[front]][j]<=b[i][j])front++;
que[++tail]=i;
}
_rep(i,k,n){
while(front<=tail&&i-que[front]>=k)front++;
while(front<=tail&&b[que[front]][j]<=b[i][j])front++;
que[++tail]=i;
sum+=b[que[front]][j];
}
}
```

```
}  
enter(sum);  
return 0;  
}
```

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