

HDU6578

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#include<iostream>
#include<cstdio>
#include<cstring>
#include<cstdlib>
#include<cmath>
#include<algorithm>
#define Mod 998244353
#define LL long long
using namespace std;
const int N=105;
int n,m;
LL f[2][N][N][N],res;
int read()
{
    int x=0,f=1;char c=getchar();
    while(c<'0' || c>'9'){if(c=='-')f=-1;c=getchar();}
    while(c>='0' && c<='9'){x=x*10+c-'0';c=getchar();}
    return x*f;
}
struct Node{int l,r,x;}c[105];
bool cmp(Node o1,Node o2){return o1.r<o2.r;}
int main()
{
    int T=read();
    while(T--)
    {
        memset(f,0,sizeof(f));
        n=read(),m=read(),res=0;
        for(int i=1;i<=m;i++)c[i].l=read(),c[i].r=read(),c[i].x=read();
        sort(c+1,c+1+m,cmp);
        f[0][0][0][0]=1;
        int p=1,r=0;
        for(int i=0;i<=n;i++,r^=1)
        {
            for(int j=0;j<=i;j++)
            for(int k=0;k<=j;k++)
            for(int l=0;l<=k;l++)
            {
                int t=p;
                while(t<=m&&c[t].r==i)
                {
                    int num=(j>=c[t].l)+(k>=c[t].l)+(l>=c[t].l)+1;
                    if(num!=c[t].x)f[r][j][k][l]=0;
                    t++;
                }
            }
            while(p<=m&&c[p].r<=i)p++;
            for(int j=0;j<=i;j++)
            for(int k=0;k<=j;k++)

```

```
for(int l=0;l<=k;l++)
{
    f[r^1][i][j][k]=(f[r^1][i][j][k]+f[r][j][k][l])%Mod;
    f[r^1][j][k][l]=(f[r^1][j][k][l]+f[r][j][k][l])%Mod;
    f[r^1][i][k][l]=(f[r^1][i][k][l]+f[r][j][k][l])%Mod;
    f[r^1][i][j][l]=(f[r^1][i][j][l]+f[r][j][k][l])%Mod;
}
for(int j=0;j<=i;j++)
for(int k=0;k<=j;k++)
for(int l=0;l<=k;l++)
{
    if(i==n)res=(res+f[r][j][k][l])%Mod;
    f[r][j][k][l]=0;
}
}
printf("%lld\n",res%Mod);
}
return 0;
}
```

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