```cpp
//RCbits
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <time.h>
#include <sys\timeb.h>

#define M 5000
#define N 1100000

char *tzstr = " TZ=JST-9";

int ceil(int a, int b);

main()
{
        FILE *r,*c;
        r = fopen("ListCSRS.txt","r");
        c = fopen("ListCSRSC.txt","w");
        int m,n,i,j,k,ww;
        unsigned int G[N][(M / 32) + 1];
        int cst[N],rh[M],ch[N],cname[100000],rname[200];

        fscanf(r,"%d %d",&m,&n);

        struct timeb st,et,tt;
        putenv(tzstr);
        tzset();
        ftime(&st);

        if(m > M || n > N)
                printf("ERROR 110: m = %d M = %d n = %d N = %d\n",m,M,n,N);

        printf("m = %d n = %d\n",m,n);

        for(k = 0;k < n;k++)
                fscanf(r,"%d",&cst[k]);

        for(i = 0;i < ceil(m , 32);i++)
                for( j = 0 ; j < n ; j++)
                        G[j][i] = 0;

        for(k = 0;k < m;k++){
                fscanf(r,"%d",&rh[k]);
                for(i = 0;i < rh[k];i++){
                        fscanf(r,"%d",&cname[i]);
                                G[cname[i] - 1][k / 32] = G[cname[i] - 1][k /
32] | (1U << (31 - (k % 32))));
                }
        }

        fprintf(c," %d %d\n",m,n);
        for(i = 0;i < n;i++)
                {
                        ch[i] = 0;
                        for(j = 0;j < m;j++)
```

```cpp
        {
                ww = G[i][j / 32];
                ww = (ww << (j % 32));
                if(ww < 0) {
                        rname[ch[i]] = j + 1;
                        ch[i]++;
                }
        }
        fprintf(c," %d %d",cst[i],ch[i]);
        for(k = 0;k < ch[i];k++)
                fprintf(c," %d",rname[k]);

        fprintf(c,"\n");
    }
    fclose(r);
    fclose(c);

    ftime(&et);
    tt.time = et.time - st.time;
    printf("et.time = %d tt.time = %d\n",et.time,tt.time);

}
int ceil(int a, int b){
        if(a % b)
                return (a / b) + 1;

        return a / b;
}
```