**归并排序求逆序对**

int res = 0;

int tmp[maxn];

void merge\_sort(vector<int>&f,int l,int r)

{

if(l>=r)return;

int mid = (l+r)/2;

merge\_sort(f,l,mid);

merge\_sort(f,mid+1,r);

int i = l,j = mid+1;

int k = i;

while(i<=mid&&j<=r){

if(f[i]>=f[j]){

tmp[k++] = f[i++];

}

else{

res+=mid - i + 1;

tmp[k++] = f[j++];

}

}

while(i<=mid)tmp[k++] = f[i++];

while(j<=r)tmp[k++] = f[j++];

for(int i = l;i<=r;i++){

f[i] = tmp[i];

}

return;

}