Sample Code of lower\_bound and upper\_bound

int lower\_bound(int A[], int N, int X){

int L = 0, R = N-1;

while(L<=R){

int M = (L+R)/2;

if(A[M]>=X){

R = M-1;

}else{

L = M+1;

}

}

return L;

}

int upper\_bound(int A[], int N, int X){

int L = 0, R = N-1;

while(L<=R){

int M = (L+R)/2;

if(A[M]>X){

R = M-1;

}else{

L = M+1;

}

}

return L;

}

low = lower\_bound(ara,ara+sz, n) - ara ;