QUESTION 1ANSWER :

1.a

Here i loop is repeated howmany number of times \*j loop repeated no of times. So first one is

=O( (n+1)\*n)/2

=O( (n^2+n)/2

=O( n^2+n)

=O (n^2)

1.b

As constants dosent matter we should get order as O (log 3n)