**Basic Programming(week-1)**

3. Basics of Operators

1. Going to Office

#include <stdio.h>

int main(){

long long int distance,oc,of,od,cs,cb,cm,cd;

long long int cost\_online=0;

long long int cost\_classic=0;

scanf("%lld", &distance);

scanf("%lld %lld %lld",&oc,&of,&od);

cost\_online = oc + ((distance - of) \* od);

scanf("%lld %lld %lld %lld",&cs,&cb,&cm,&cd);

cost\_classic = cb + ((distance/cs)\*cm) + (distance\*cd);

if(cost\_online < cost\_classic || cost\_online == cost\_classic){

printf("Online Taxi");

}else{

printf("Classic Taxi");

}

}

1. Let us understand computer

#include<bits/stdc++.h>

using namespace std;

int main(){

ios\_base::sync\_with\_stdio(false);

cin.tie(0);

cout.tie(0);

long long int t;

cin>>t;

while(t--){

long long int n , ans=0;

cin>>n;

int i=1;

while(i<=sqrt(n)){

i=i\*2;

if(n/i>=i/2){

ans=n-n/i;

}

else{

ans=(n-(i/2))+1;

}

}

cout<<ans<<"\n";

}

}