**CS/IV/18-08**

#include <bits/stdc++.h>

using namespace std;

class shubham

{

string S;

int N,even;

public:

shubham()

{

even=0;

}

void getData();

void binaryString();

};

void shubham::getData()

{

cin>>N;

cin>>S;

}

void shubham::binaryString()

{

cout<<count(S.begin(),S.end(),'0')<<"\n";

}

int main()

{

int T;

cin>>T;

while(T--)

{

shubham S;

S.getData();

S.binaryString();

}

return 0;

}