Comment on the time complexities of below programs .

Q1. What is the time complexity of the following code:

```
a = 0, i = N

while i > 0:

a += i

i /= 2
```

Q2 What is the time complexity of the following code

```
i = n / 2

while i < n:

j = 2

while j < n:

j *= 2
```

Q3.

```
count = 0;

i = N

while i > 0:

While j < i:

count+=1

i /= 2
```