Consider the following code fragment:

```java
byte x = 42;
byte h=0;
while (0 < x) {
    if (1 == (1 & x)) h++;
    x >>= 1;  // equivalent to x = x >> 1;
}
```

- Trace the value of `h`:

<table>
<thead>
<tr>
<th>h</th>
</tr>
</thead>
</table>

- How does the value of the variable `h` relate to the initial value of `x`?