

(1) What is the output by calling produce(7)? [4 Marks]

(2) Rewrite the method using iteration instead. [8 Marks]

```
int produce(num)
{
    int N = 10; current = 10;
    while (N >= num)
    {
        current = N + current / 2;
        N--;
    }
    return N + current / 2;
}
```