Explain the C program step by step (i.e. line by line).

```c
int num=11,  i, sum=0, lineNumber=3;

printf( "starting line number: %d ", lineNumber );

for (i=0; i<=3; i++) {                    // line number: 3
    printf( "i: %d  ", i );               // line number: 4
    num *= 2;                             // line number: 5
    sum = sum + num;                      // line number: 6
    printf( "...sum = %d\n", sum );       // line number: 7
}
```

Answer:

3: i is set to ??? ; 1<=3: ???

4: printf, i: ???

5: num = ???

6: sum = ??? + ??? = 11

7: printf, ...sum = ???

3: ???

4: ???