Summer 2018 Algorithms and Analysis Tools Exam, Part B

3) (5 pts) ALG (Bitwise Operators)

What is the output of the following program?

```
#include <stdio.h>
int main() {
    int n = 182, i = 0;

    while (n > 0) {
        if ((n & (1<<i)) > 0) {
            printf("%d\n", (1<<i));
            n ^=(1<<i);
        }
        i++;
    }
    return 0;
}</pre>
```

 $\frac{2}{4}$ $\frac{16}{32}$ $\frac{128}{128}$

Grading: 1 pt per correct number listed. 1 pt off per extra number listed, cap at 0.