1. What is the Big-Oh execution time for the following code (2 pts):

```c
for(int i=n; i > 0; i = i/2)
    for(j =0; j < n; j++)
        printf(...)
```

1. $O(n)$
2. $O(n \log n)$
3. $O(\log n)$
4. None of the above

2. What is the output of the following C code (Fill in the blanks below) (3 pts)?

```c
#include <stdlib.h>
void main(int argc, char **argv)
{
    int a;
    int *pint;
    int b[5] = {5, 4, 20, 6, 1};

    a = 5;
    pint = &a;
    printf("a = %d\n", a);

    *pint = 10;
    *pint = *pint + 2;
    printf("a = %d\n", *pint);

    printf("*(b+2) = %d\n", *(b+2));
}
```

a = __________

a = __________

*(b+2) = __________
3. What is the order property of the Stack ADT (2pts)?

4. What are the three behaviors of the Stack ADT (3 pts)?