89. Gray Code

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An accepted three line solution in JAVA

43.2K
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(/jinrf) jinrf (/jinrf) ★
517

```java
public List<Integer> grayCode(int n) {
    List<Integer> result = new LinkedList<>();
    for (int i = 0; i < 1<<n; i++) result.add(i ^ i>>1);
    return result;
}
```

The idea is simple. G(i) = i^ (i/2).

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```
000 000 -> 000
001 000 -> 001
010 001 -> 011
011 001 -> 010
100 010 -> 110
101 010 -> 111
110 011 -> 101
111 011 -> 100
```

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varunu28 (/varunu28) ★ 1 🕒 January 25, 2018 4:22 PM

(/varunu28)

A much basic and detailed solution using a base case of 1. We start with a list of value 1 and build up the list till n