Homework 13

Solidity / Yul bitwise

- 1. What are the potential dangers when performing the following bitwise operations
 - 1. Left shift
 - 2. Right shift
- 2. Bit Operations

```
Imagine you have a uint256 variable in storage named x check if x starts with de or be if x starts with 0xde multiply x by 4 if x starts with 0xbe divide x by 4
```

Write the code in

a. Solidity

b. Yul

Which one is most gas efficient?

To help you test your solution, here are some decimal values you can use

https://gist.github.com/extropyCoder/e991809dbb4194dc5af00d6422083f99