



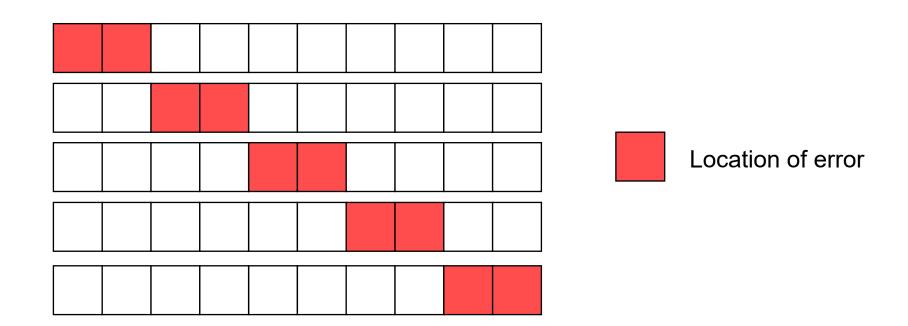
ECC 1st homework



[10, 6] Code



- Condition 1: Convert systematic codes, e.g., [1,1,1,1,1,1] to [1,1,1,1,1,1,1,1,0,0].
- Condition 2: Must be able to correct all single-bit errors.
- Condition 3: Must be able to correct the following two-bit error patterns.





[10, 6] Codes



- Provided code files: code.py, main.py.
- Place both files in the same directory and run the command python 'main.py' to check the
 execution results.

```
Case #57: Message [1 1 1 0 0 1] >>>>>>> Pass 16 / 16
Case #58: Message [1 1 1 0 1 0] >>>>>>> Pass 16 / 16
Case #59: Message [1 1 1 0 1 1] >>>>>>> Pass 16 / 16
Case #60: Message [1 1 1 1 0 0] >>>>>>> Pass 16 / 16
Case #61: Message [1 1 1 1 0 1] >>>>>>> Pass 16 / 16
Case #62: Message [1 1 1 1 0 1] >>>>>>> Pass 16 / 16
Case #63: Message [1 1 1 1 1 1] >>>>>>>> Pass 16 / 16
Your code passes all the test cases!!
```

```
Correct result
```

```
Case #59: Message [1 1 1 0 1 1] >>>>>>> Fail 0 / 16
Case #60: Message [1 1 1 1 0 0] >>>>>>> Pass 16 / 16
Case #61: Message [1 1 1 1 0 1] >>>>>> Pass 16 / 16
Case #62: Message [1 1 1 1 1 0] >>>>>> Fail 0 / 16
Case #63: Message [1 1 1 1 1 1] >>>>>> Fail 0 / 16
Your code is not systematic, please check it again
Your code doesn't pass all the test cases!!
```

Wrong result