

입력값이 UTF-8 문자열이 맞는지 검증하라.

Input: data = [197,130,1]

Output: true

Explanation: data represents the octet sequence: 11000101 10000010 00000001.

It is a valid utf-8 encoding for a 2-bytes character followed by a 1-byte character.

1.비트 연산

class Solution:

```
def validUtf8(self, data: List[int]) -> bool:
```

```
    def check(size):
```

```
        for i in range(start + 1, start + size + 1):
```

```
            if i >= len(data) or (data[i] >> 6) != 0b10:
```

```
                return False
```

```
        return True
```

```
start = 0
```

```
while start < len(data):
```

```
    first = data[start]
```

```
    if (first >> 3) == 0b11110 and check(3):
```

```
        start += 4
```

```
    elif (first >> 4) == 0b1110 and check(2):
```

```
        start += 3
```

```
    elif (first >> 5) == 0b110 and check(1):
```

```
        start += 2
```

```
    elif (first >> 7) == 0:
```

```
        start += 1
```

```
    else:
```

```
        return False
```

```
return True
```