2.1.
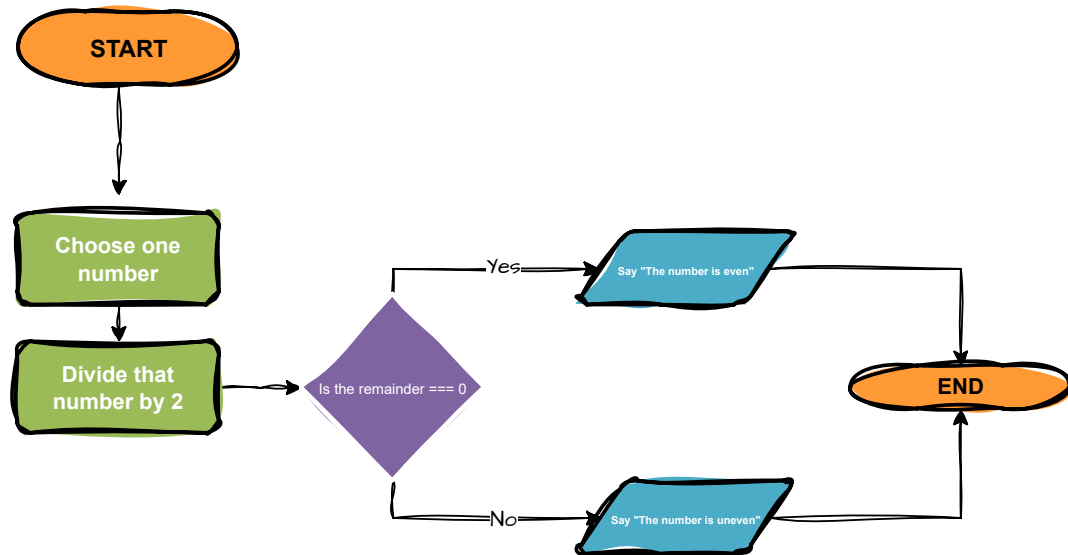
CHECK IF ONE NUMBER IS EVEN
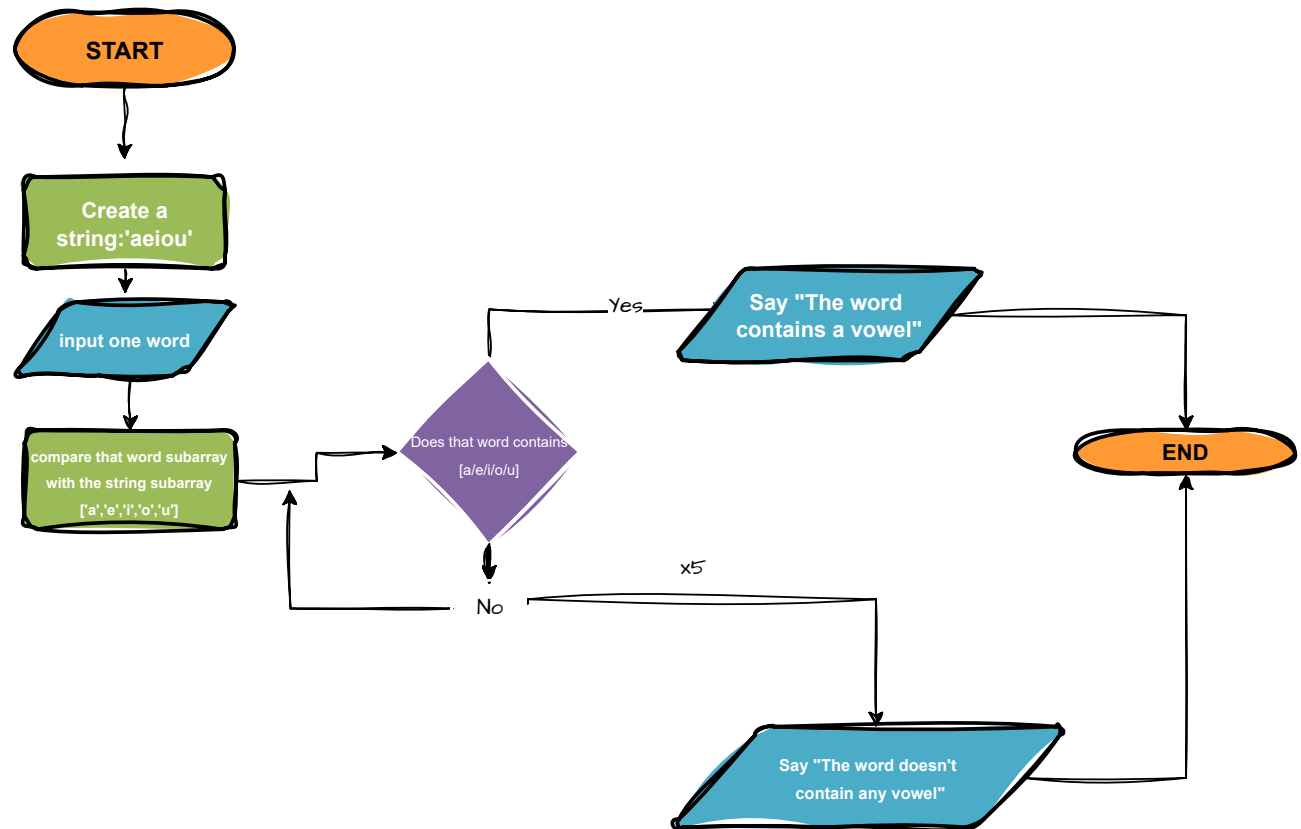
- Choose one number
- Divide that number by 2
- Is the remainder = 0
- **Yes**
  - Is even
- **No**
  - Is Uneven

TERMINATOR
START/END

INPUT/OUTPUT

PROCESS

DECISION

START

Choose one number

Divide that number by 2

Is the remainder === 0

Yes

Say "The number is even"

No

Say "The number is uneven"

END

2.2.
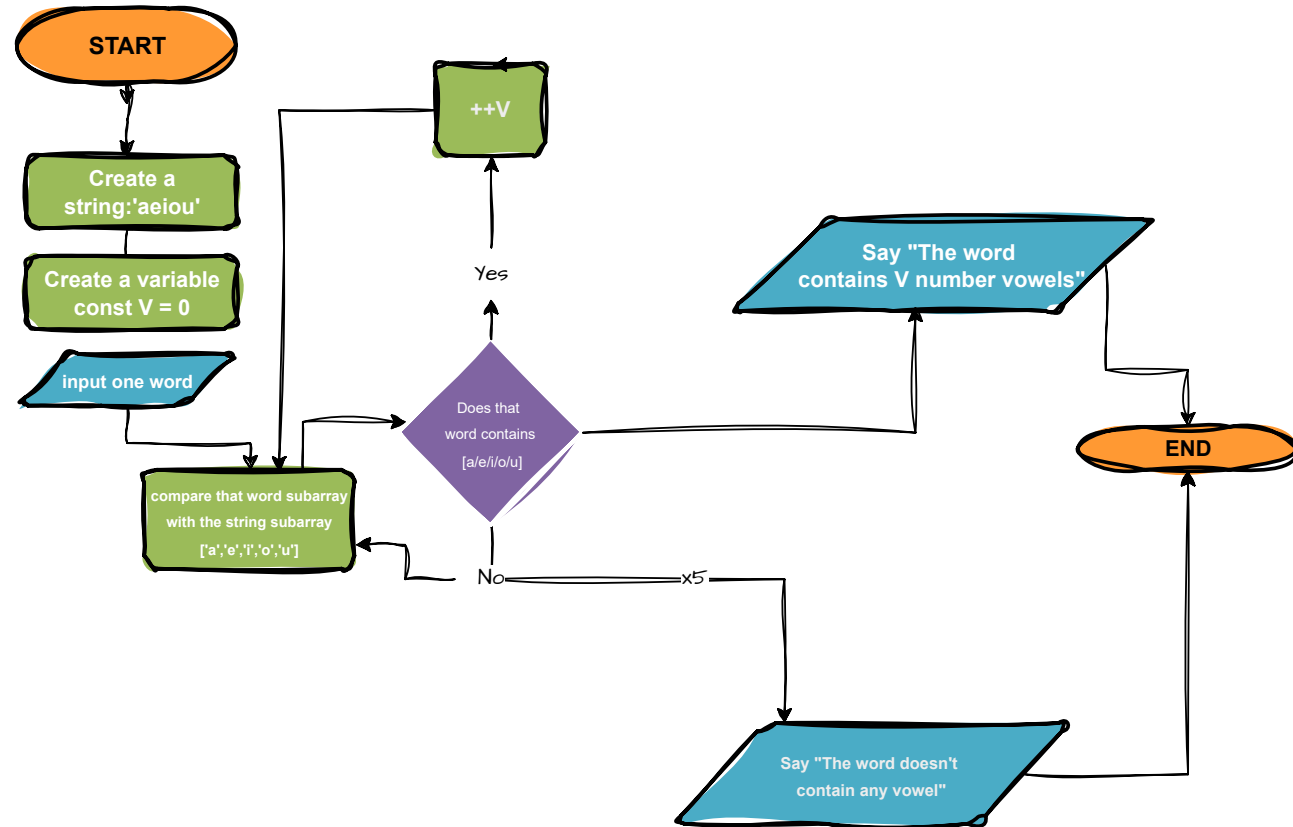
CHECK IF ONE A WORD CONTAINS A VOWEL 'aeiou'

- Create a string: 'aeiou'
- Input one word
- compare that word subarray with the string subarray ['a','e','i','o','u']
- Does that word contain [a/e/i/o/u]
- **Yes**
  - Say It contains it
- **No**
  - Check Again
  - If 'No' x5
    - It doesn't contain it.

START

Create a string:'aeiou'

input one word

compare that word subarray with the string subarray ['a','e','i','o','u']

Does that word contains [a/e/i/o/u]

Yes

Say "The word contains a vowel"

No

x5

END

Say "The word doesn't contain any vowel"

2.3.

CHECK IF ONE A WORD CONTAINS A VOWEL
'aeiou'

- Create a string: 'aeiou'
- Create a variable V
- Input one word
- compare that word subarray with the string subarray ['a','e','i','o','u']
- Does that word contain [a/e/i/o/u]
- **Yes**
- Sum 1 to V for each vowel.
  - **Say "The word contains V number vowels"**
- **No**
  - Check Again
  - If 'No' x5
    - It doesn't contain it.

START

Create a string:'aeiou'

Create a variable const V = 0

input one word

compare that word subarray with the string subarray ['a','e','i','o','u']

++V

Yes

Does that word contains [a/e/i/o/u]

No x5

Say "The word contains V number vowels"

Say "The word doesn't contain any vowel"

END

2.4.

CHECK IF A NUMBER CAN BE DIVIDED BY 3 WITHOUT A REMAINDER.
THEN CHECK IF THE NUMBER CAN BE DIVIDED EVENLY BY 4.
THEN CHECK IF THE NUMBER CAN BE DIVIDED EVENLY BY BOTH 3 AND 4.

- Choose one number
- Divide that number by 3
- Is the remainder === 0
- **Yes**
  - That number is divisible by 3 without a remainder
  - Now divide it by 4
    - Is the remainder === 0
    - **Yes**
    - **Say the number is a factor of 3 and 4.**
    - **No**
    - The number is a factor of 3
- **No**
  - The number is not a factor of 3
    - Divide it by 4
    - Is the remainder === 0
    - **Yes**
    - *The number is a factor of 4*
    - ***No***
    - The number is not divisible by 3 and 4 without a remainder.

START

Choose one number

Divide that number by 3

Is the remainder === 0 — Yes → Divide that number by 4 — Is the remainder === 0 → Yes → Say "The number is a factor of 3 and 4"

No → Say "The number is a factor of 3"

No → Say "The number is not a factor of 3" → Divide that number by 4 → Is the remainder === 0 → Yes → Say "The number is a factor of 4"

No → Say "The number is not divisible by 3 and 4 without a remainder"

END