

```

func is_prime(n int) bool {
    if n < 2 {
        return false
    } else if n == 2 {
        return true
    } else if n % 2 == 0 {
        return false
    } else {
        candidate := 3
        for candidate * candidate <= n {
            if n % candidate == 0 {
                return false
            }
            candidate += 2
        }
        return true
    }
}

```

Go

```

def is_prime?(n)
    return false if n < 2
    return true if n == 2
    return false if n.even?

```

Ruby

Assignment Project Exam Help

<https://eduassistpro.github.io/>

Add WeChat edu_assist_pro

```

candidate * candidate <= n
    else if n % candidate == 0
        candidate += 2
    end
    return true
end

```

Testing for Primes

```
func std_dev(nums []float64) float64 {
```

```
    avg := mean(nums)
```

mean is a function
written by the
programmer

```
    result := 0.0
```

```
    for _, x := range nums {
```

```
        diff := x - avg
```

```
        result += diff * diff
```

```
    }
```

```
    return math.Sqrt(result / float64(len(nums)))
```

```
}
```

Go

```
def std_dev(nums)
```

```
    n = nums.length
```

```
    = nums.sum / n
```

```
    nums.map { |x| (x - mean)**2 }
```

```
    return sqrt(diffs.sum / n)
```

```
end
```

Ruby

Assignment Project Exam Help

<https://eduassistpro.github.io/>

Add WeChat [edu_assist_pro](#)

Standard Deviation

```

func nbits(n int) []string {
    if n < 0 {
        return []string{}
    } else if n == 1 {
        return []string{"0", "1"}
    } else {
        n1bits := nbits(n - 1)
        zero := append([]string{}, n1bits...)
        one := append([]string{}, n1bits...)
        for i := range n1bits {
            zero[i] = "0" + zero[i]
            one[i] = "1" + one[i]
        }
        return append(zero, one...)
    }
}

```

Go

```
def nbits(n)
```

```
    return [] if n < 0
```

```
    return ['0','1'] if n == 1
```

Ruby

```
    n1bits = nbits(n-1)
```

```
    ts.map {|s| '0' + s}
```

```
    s.map {|s| '1' + s}
```

```
    return zero + one
```

```
end
```

Assignment Project Exam Help

<https://eduassistpro.github.io/>

Add WeChat edu_assist_pro

Generating Bits