Question 1

Ans:

In [23]:
```python
def mySqrt(x):
    if x == 0:
        return 0

    left, right = 0, x
    while left <= right:
        mid = (left + right) // 2
        if mid * mid == x:
            return mid
        elif mid * mid < x:
            left = mid + 1
            result = mid
        else:
            right = mid - 1

    return result
```

In [24]:
```python
print(mySqrt(4))
print(mySqrt(8))
```

```
2
2
```

In [ ]: