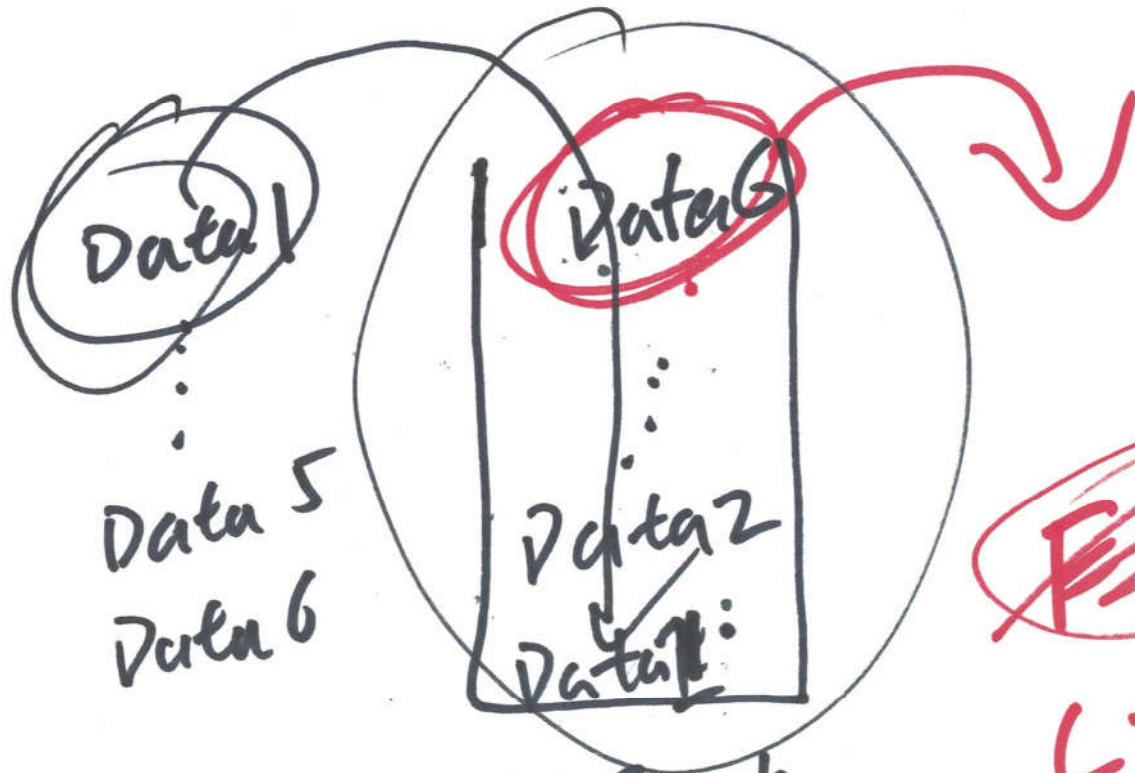


0325

2 325
2 164 1
2 82 0
2 41 0
2 20 1
2 10 0
2 5 0
2 2 1
2 1 0
2 0 1
0 0



①



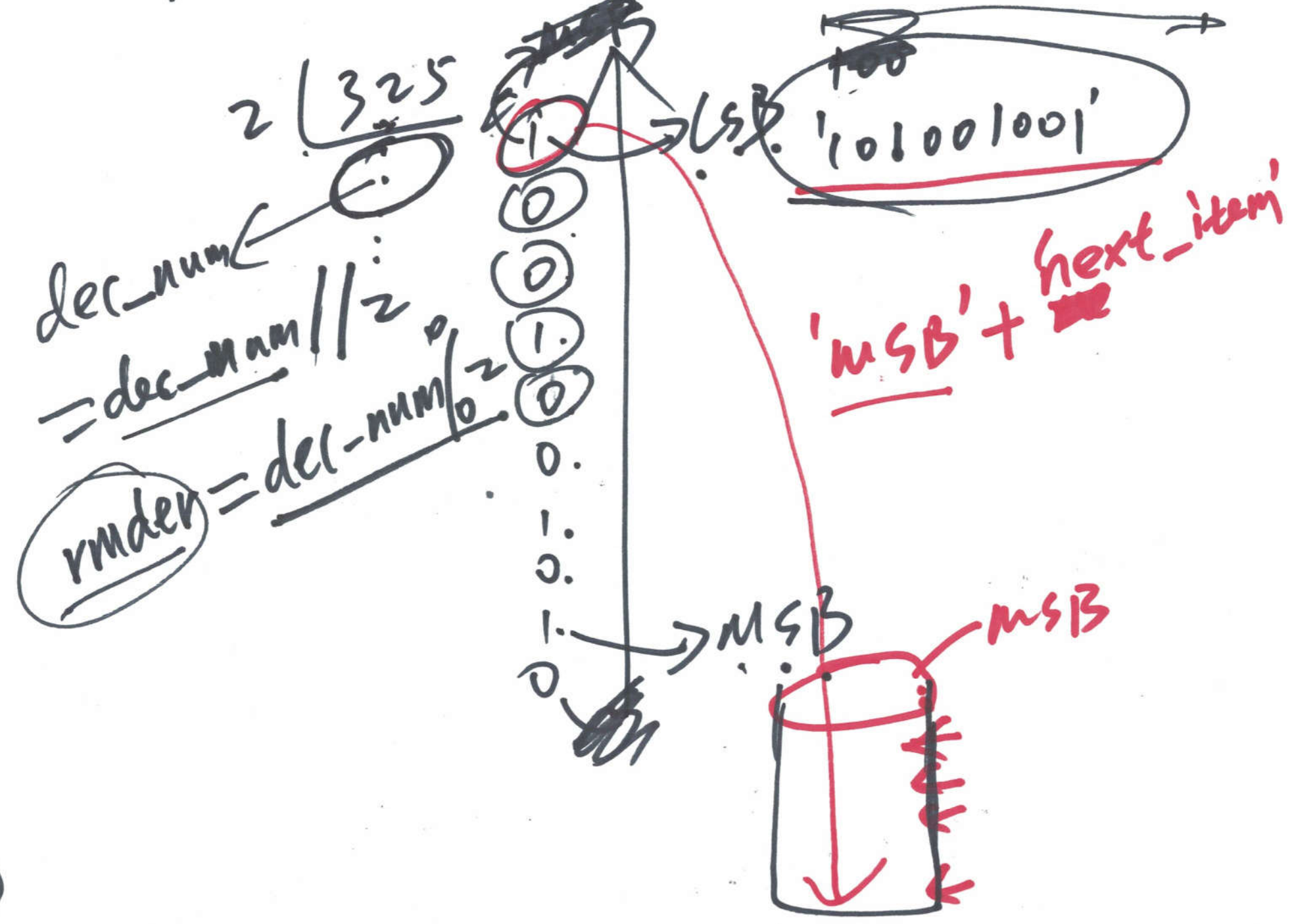
class Stack :

stack.pop()

stack = Stack()
stack.push(data)

2

Example 1: Decimal \rightarrow binary conversion



Example 2: Reverse a string:

```
def Rvstr (strToBeRev):
```

```
    s = Stack()
```

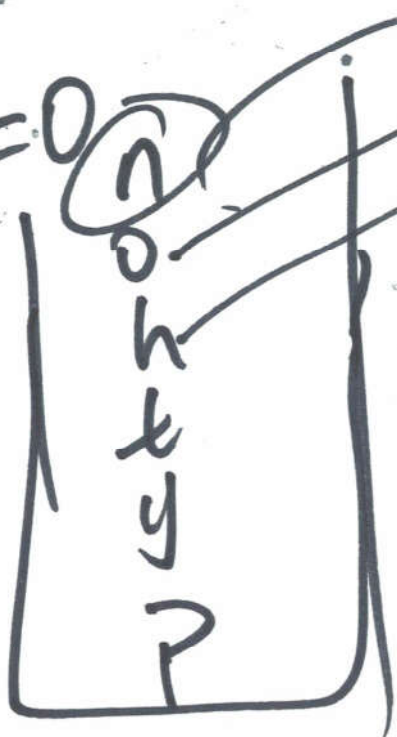
```
    while index < len(strToBeRev):
```

```
        s.push (strToBeRev[index])
```

'Python'

↑

index = 0



'noh...P'

Example 3: Parenthesis Balance Check

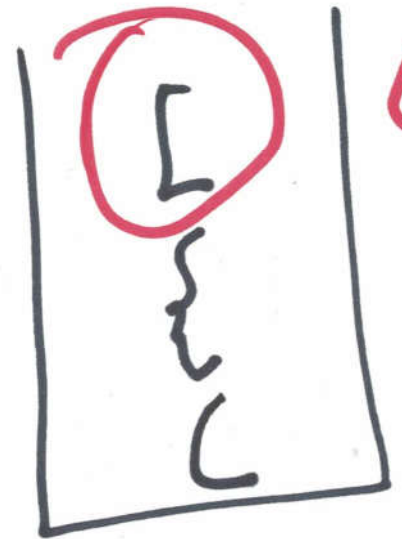
(({ [] })



' ([]



']]



```
if paren[index]
  in '{ [ (':
  S. push(paren[index])
```

5

```
def is_match (P1, P2):
```

```
    if P1 == '[' and P2 == ']':
```

```
        return True
```

```
    elif P1 == '(' and P2 == ')':
```

```
        return True
```

```
    elif P1 == '{' and P2 == '}':
```

```
        return return True
```

```
    else:
```

```
        return False
```

(b)

[1, 2, 3, 4, 5, 6]

