

```
def recursion():
```

```
    num = b(5,2)
```

```
    print(num)
```

```
def b(n,k):
```

```
    if k == 0 or k == n:
```

```
        print('Base Case!')
```

```
        return 2
```

```
    else:
```

```
        return b(n-1, k-1) + b(n-1, k)
```

[solution]

num = b(5,2)

↓ ↑ 20

[ b(4,1) ] + [ b(4,2) ]

↓ ↑ 18

[ b(3,0) + b(3,1) ]

↓ ↑ 2

Base Case!

↓ ↑ 6

[ b(2,0) + b(2,1) ]

↓ ↑ 2

Base Case!

↓ ↑ 4

[ b(1,0) + b(1,1) ]

↓ ↑ 2

Base Case!

↓ ↑ 2

Base Case!

[ b(3,1) + b(3,2) ]

↓ ↑ 6

[ b(2,0) + b(2,1) ]

↓ ↑ 2

Base Case!

↓ ↑ 4

[ b(1,0) + b(1,1) ]

↓ ↑ 2

Base Case!

[ b(2,1) + b(2,2) ]

↓ ↑ 4

Base Case!

↓ ↑ 2

Base Case!

Base Case!

10 10 Base Case!

num = 20 #