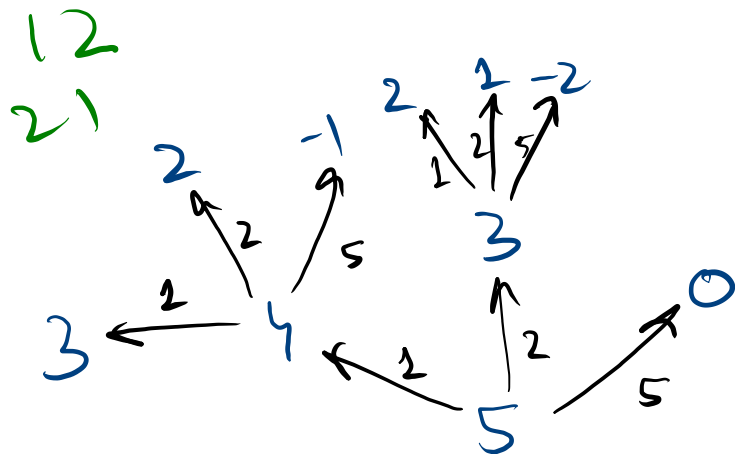


amount = 5

23

32


$$\begin{bmatrix} 1 & 2 & 5 \\ 0 & 1 & 2 \end{bmatrix} \text{ amount} = 5$$

func recur(coins, i, amt) {

```
if (cnt == 0) return 1
```

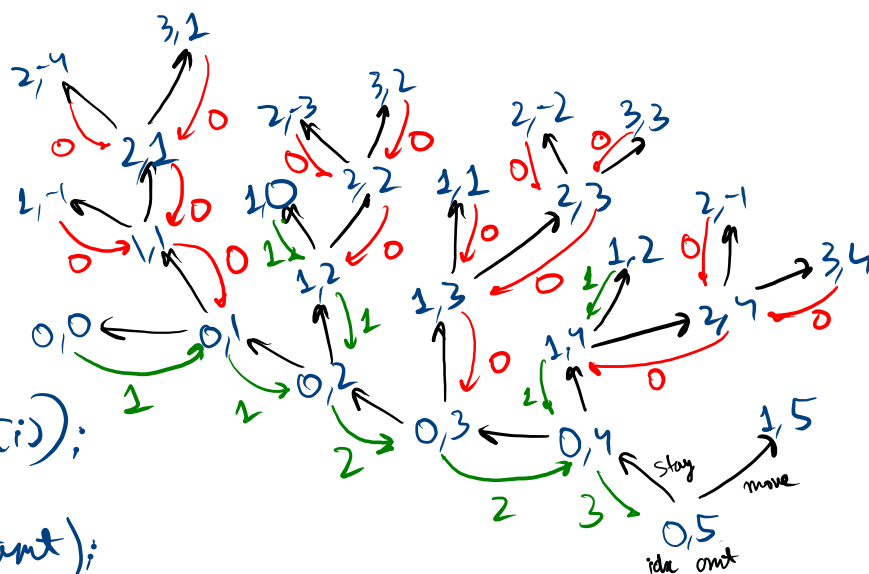
```
if (amt < 0) return 0
```

```
if (i == words.length) return 0;
```

```
int stay = new(coins, i, amt - coins[i]);
```

```
int moveNext = rear(coins, i+1, amt);
```

return stay + move to Next;


$$[\cancel{x}, \cancel{2}, \cancel{5}]$$

| 0 | 1 | 2 | 3 | 4 | 5 |
|---|----|-----------|-------------|----------------------|-------------------------------|
| 1 | 1 | 2 | 2 | 3 | 4 |
| • | •1 | •11 •2 | •111 •12 | •1111 •112 •22 | •11111 •1112 •122 •5 |

Ans: \Rightarrow