



max value including node r.

```

dp(r) = Math.max(
  root.val,
  root.val + left,
  root.val + right,
)

```

```

max = Math.max(r, r + left, r + right,
  r + left + right);

```

```

const fn = (root) => {

```

```

  if (!root) return 0;

```

```

  let max = -Infinity;

```

```

  const helper = (r) => {

```

```

    if (!r) {

```

```

      return 0;

```

```

    }

```

```

    const left = helper(r.left);

```

```

    const right = helper(r.right);

```

```

    max = Math.max(r, r + left, r + right,
      r + left + right);

```

```

  return Math.max(

```

```

    root.val,

```

```
        root.val + left,  
        root.val + right  
    );  
}  
helper(root);  
return max;  
}
```