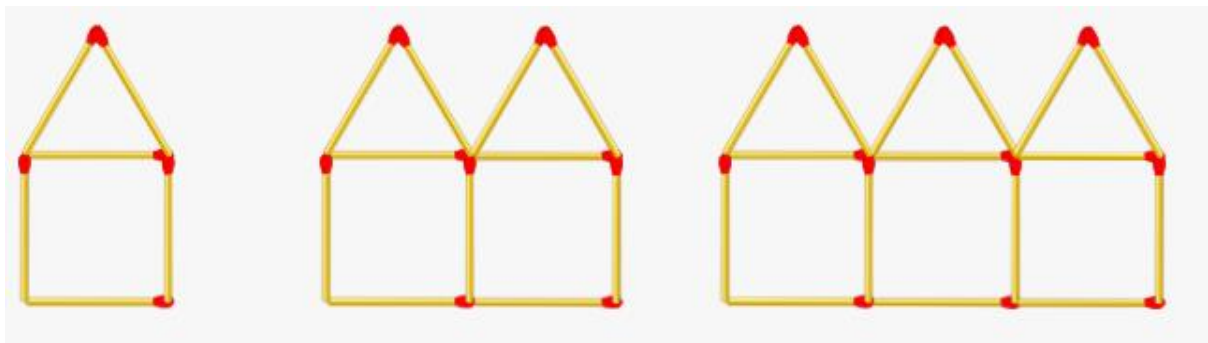


Matchstick Houses

This challenge will help you interpret mathematical relationships both algebraically and geometrically.



Create a function that takes a number (step) as an argument and returns the number of matchsticks in that step. See step 1, 2 and 3 in the image above.

Examples

```
matchHouses(1) → 6
```

```
matchHouses(4) → 21
```

```
matchHouses(87) → 436
```

Notes

- Step 0 returns `0` matchsticks.
- The input (step) will always be a non-negative integer.
- Think of the input (step) as the total number of houses that have been connected together.