Name _____ Date _____



Santa's Sleigh Coding

Follow the code. Circle the houses that get a present.

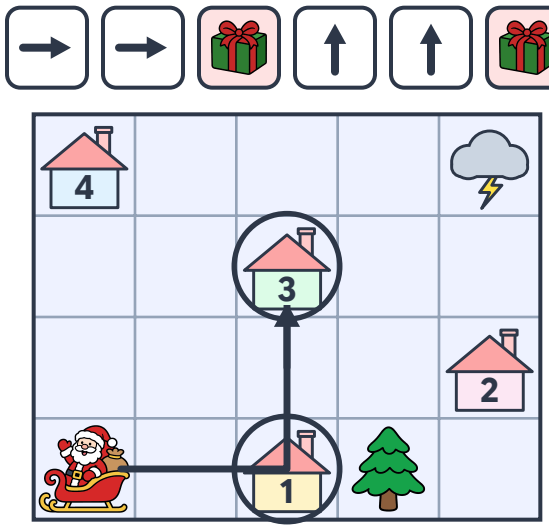


 fly one square

 drops a present down the chimney

The sleigh can fly over houses, but not into trees, storm clouds or towers.

1. Example



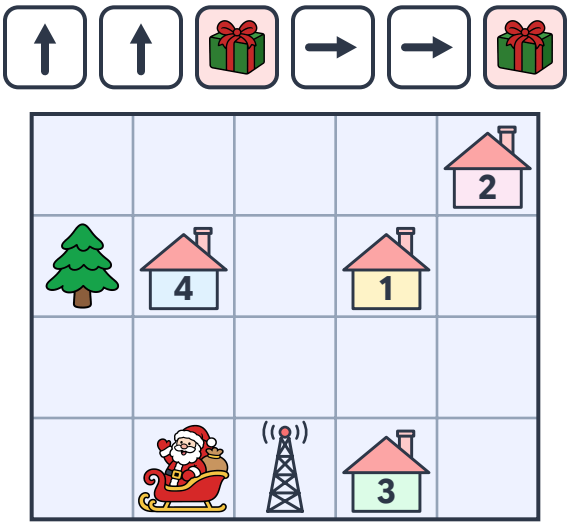
2.



3.



4.



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Name _____ Date _____

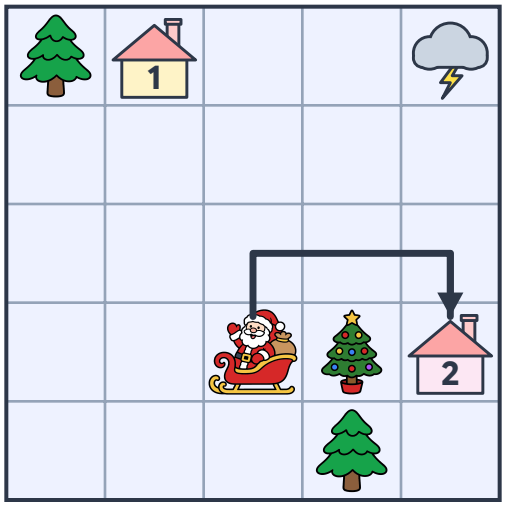


Santa's Sleigh Coding

Write the arrows to the house, the shortest way round.

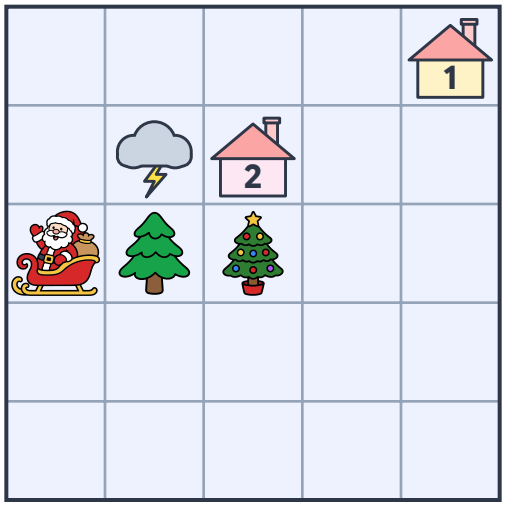


1. Go to house 2. Example





2. Go to house 2.



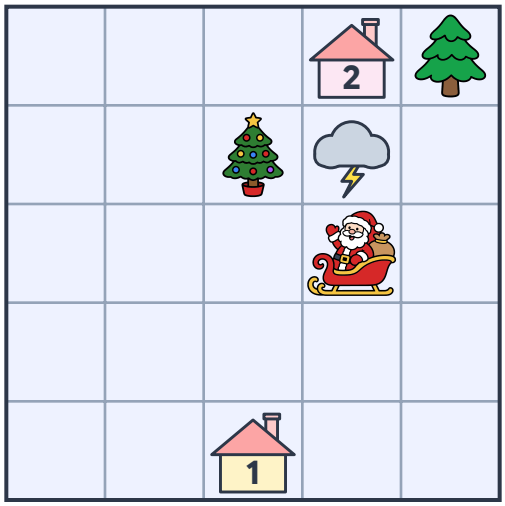


3. Go to house 3.





4. Go to house 2.





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Name _____ Date _____

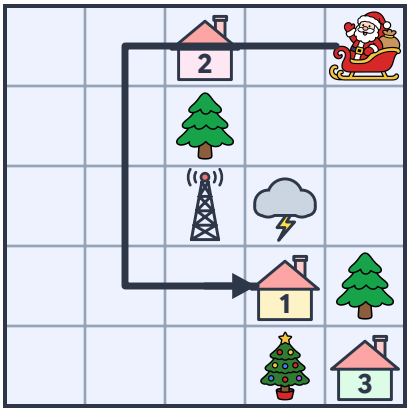


Santa's Sleigh Coding

Write the code: arrows and present cards, the fewest arrows.



1. House 2, then house 1 Example

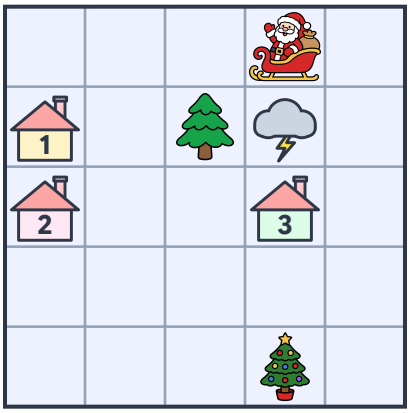




2. House 3, then house 2



3. House 3, then 2, then 1



4. House 2, then 1, then 3



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Name _____ Date _____



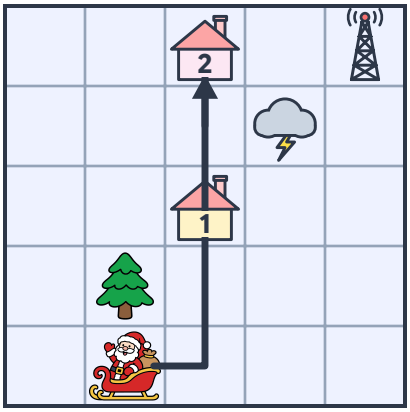
Santa's Sleigh Coding

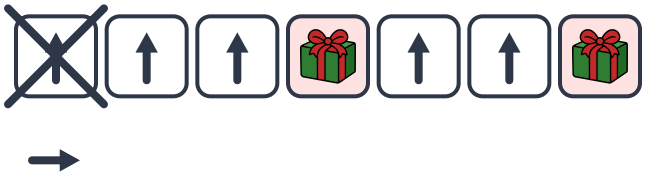
One card is wrong. Cross it out. Draw the right card under it.



1. House 1, then house 2

Example





2. House 2, then house 1





3. House 2, then house 1





4. House 3, then house 2





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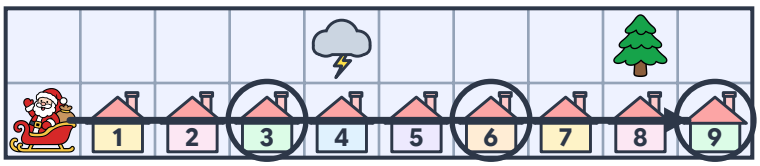
Name _____ Date _____



Santa's Sleigh Coding

Follow the first two loops. Then write a loop for each street.

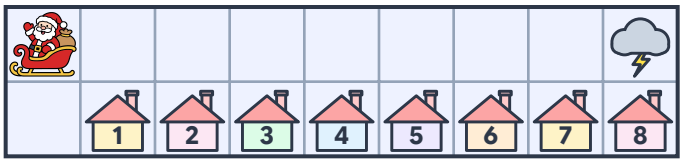
1. Example



Circle the houses.

repeat 3 times → → → 🎁

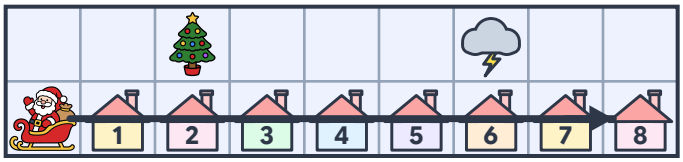
2.



Circle the houses.

repeat 3 times → ↓ 🎁 → ↑

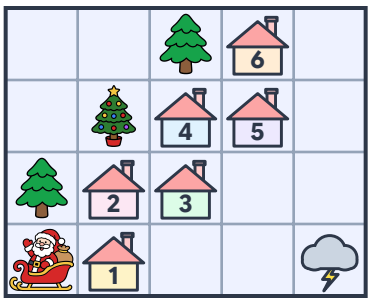
3. Example



Presents for houses 2, 4, 6 and 8.

repeat 4 times → → 🎁

4.



Presents for houses 2, 4 and 6.

repeat ____ times



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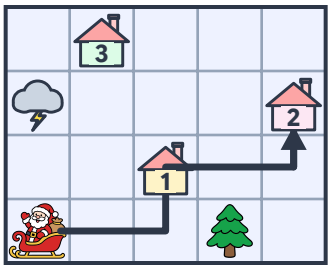
Name _____ Date _____



Santa's Sleigh Coding

Write the long codes shorter. Then loops inside loops!

1.



Long code

Example



With a loop

repeat 2 times



2.



Long code



With a loop

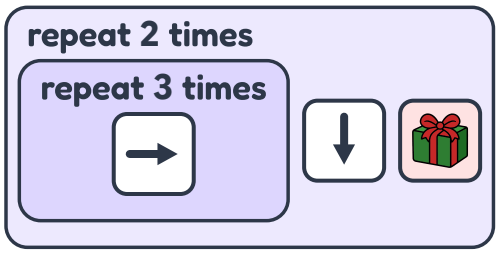
repeat ____ times

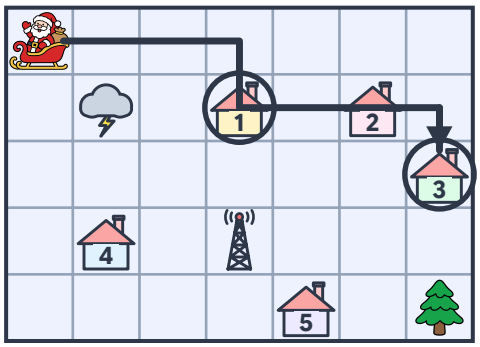


3.

repeat 2 times

repeat 3 times





Example

Circle the houses.

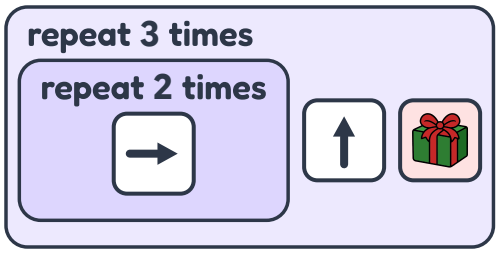
How many cards run?

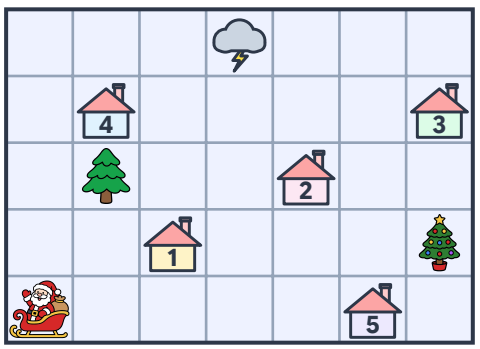
10

4.

repeat 3 times

repeat 2 times





Circle the houses.

How many cards run?

_____

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Name _____ Date _____



Santa's Sleigh Coding

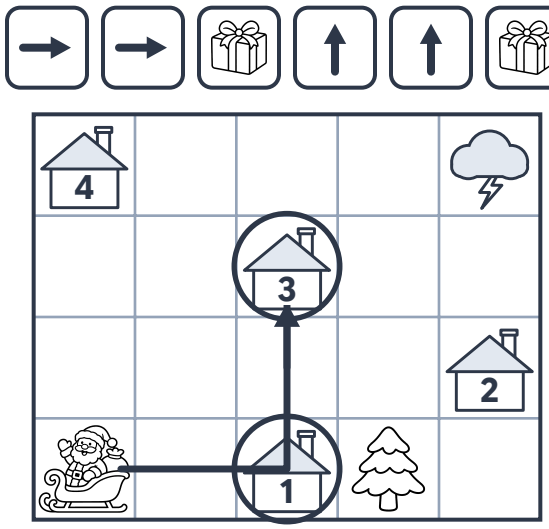
Follow the code. Circle the houses that get a present.



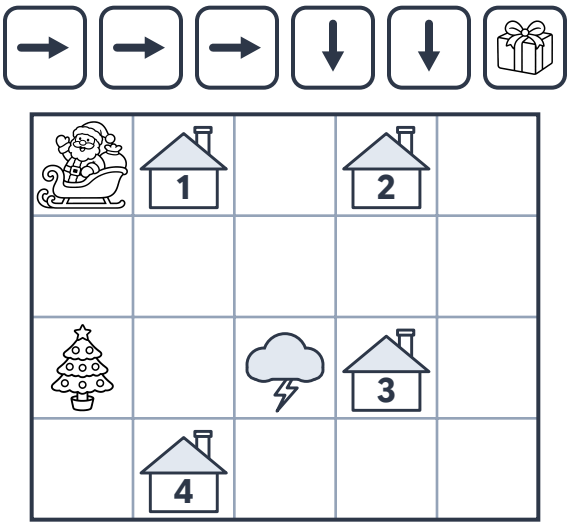
 fly one square  drops a present down the chimney

The sleigh can fly over houses, but not into trees, storm clouds or towers.

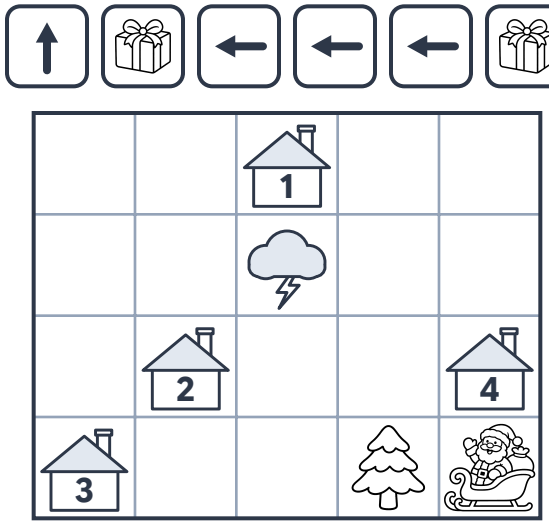
1. Example



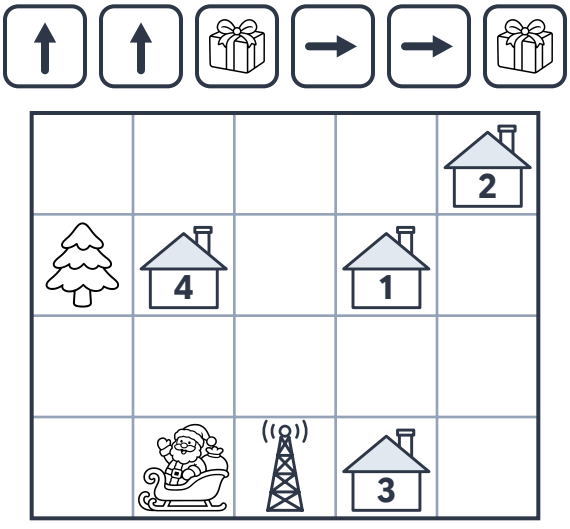
2.



3.



4.



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Name _____ Date _____

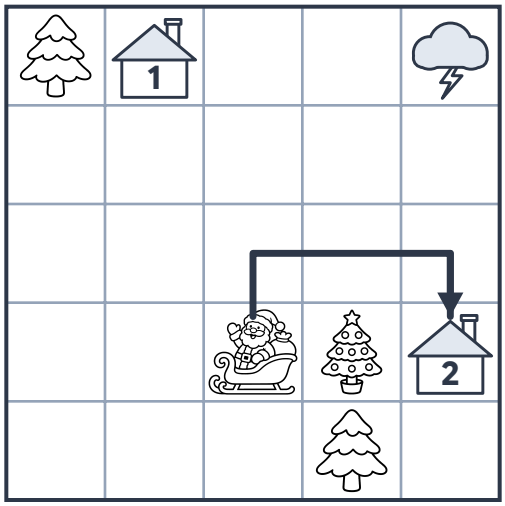


Santa's Sleigh Coding

Write the arrows to the house, the shortest way round.



1. Go to house 2. Example



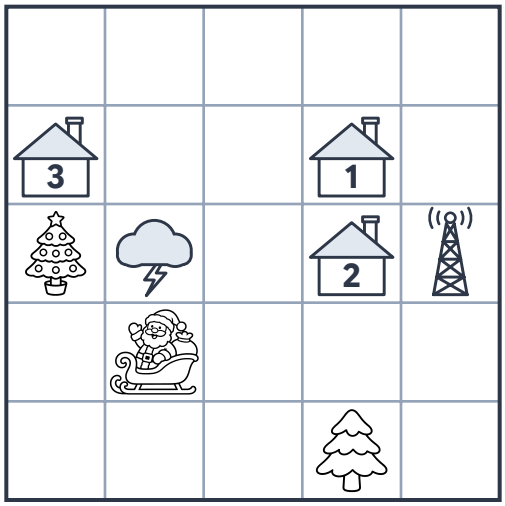


2. Go to house 2.



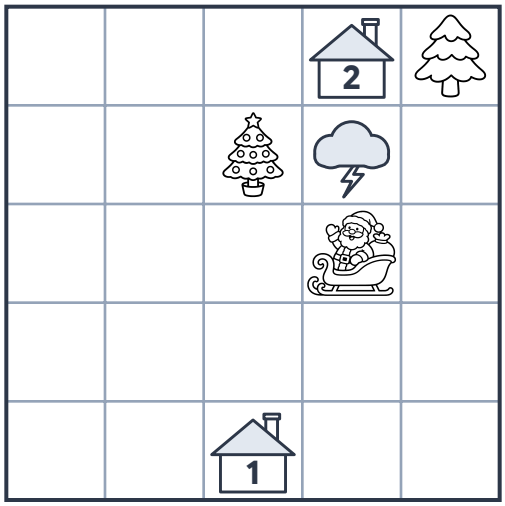


3. Go to house 3.





4. Go to house 2.





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Name _____ Date _____



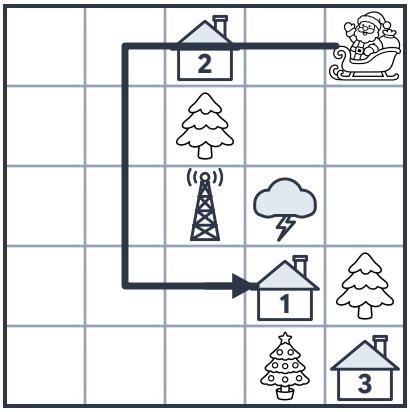
Santa's Sleigh Coding

Write the code: arrows and present cards, the fewest arrows.



1. House 2, then house 1

Example

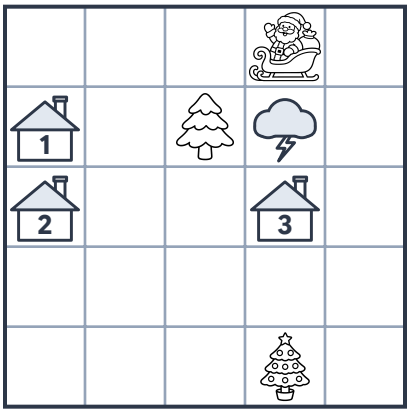




2. House 3, then house 2



3. House 3, then 2, then 1



4. House 2, then 1, then 3



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Name _____ Date _____



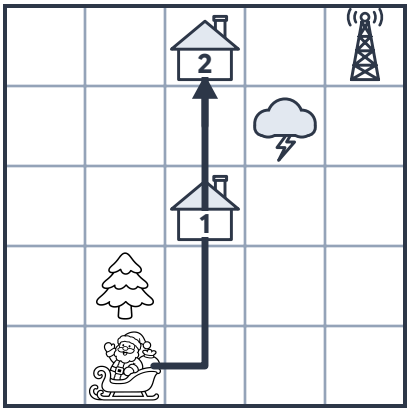
Santa's Sleigh Coding

One card is wrong. Cross it out. Draw the right card under it.



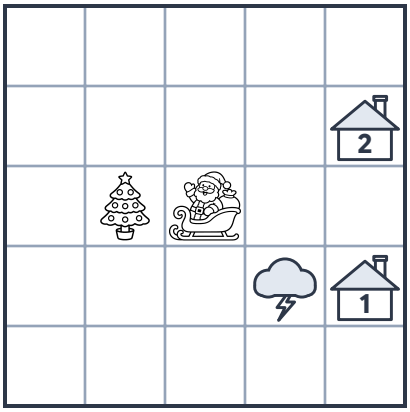
1. House 1, then house 2

Example



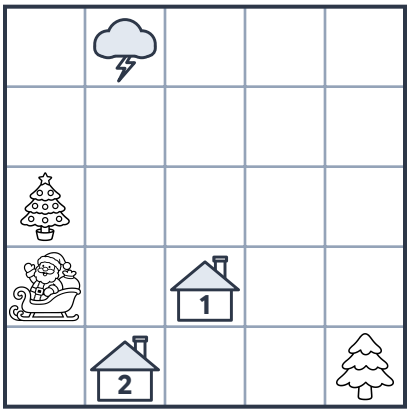


2. House 2, then house 1



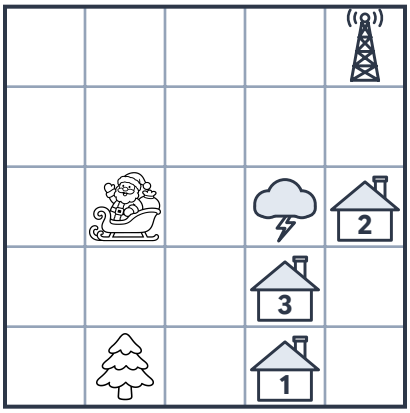


3. House 2, then house 1





4. House 3, then house 2





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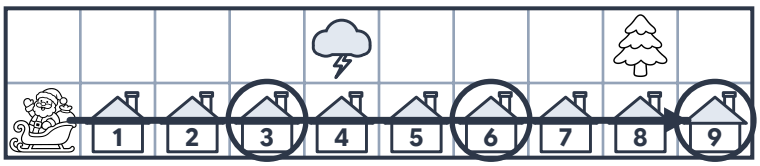
Name _____ Date _____



Santa's Sleigh Coding

Follow the first two loops. Then write a loop for each street.

1. Example



Circle the houses.

repeat 3 times → → → 🎁

2.



Circle the houses.

repeat 3 times → ↓ 🎁 → ↑

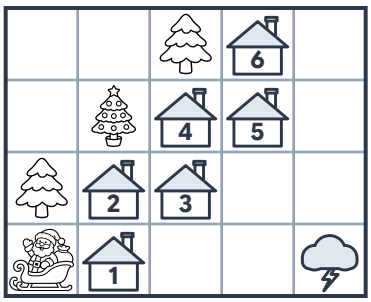
3. Example



Presents for houses 2, 4, 6 and 8.

repeat 4 times → → 🎁

4.



Presents for houses 2, 4 and 6.

repeat ____ times



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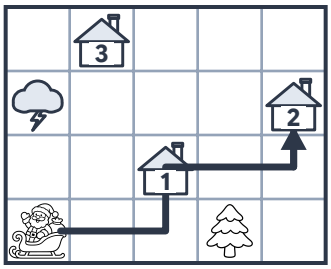
Name _____ Date _____



Santa's Sleigh Coding

Write the long codes shorter. Then loops inside loops!

1.



Long code

Example

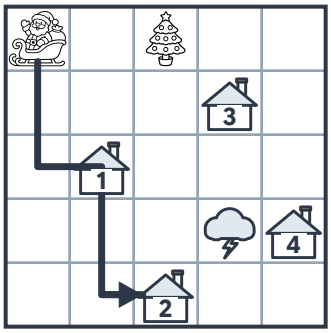


With a loop

repeat 2 times



2.



Long code



With a loop

repeat ____ times

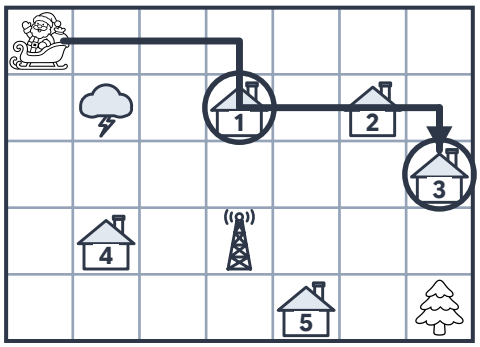


3.

repeat 2 times

repeat 3 times





Example

Circle the houses.

How many cards run?

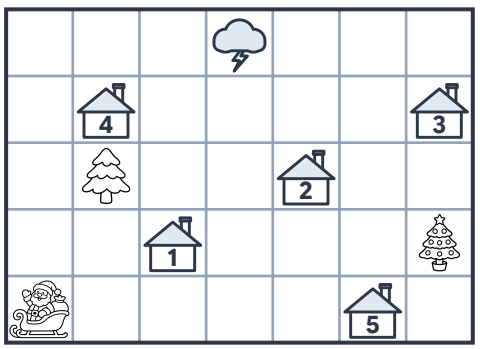
10

4.

repeat 3 times

repeat 2 times





Circle the houses.

How many cards run?

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Santa's Sleigh Coding

Follow the code. Circle the houses that get a present.

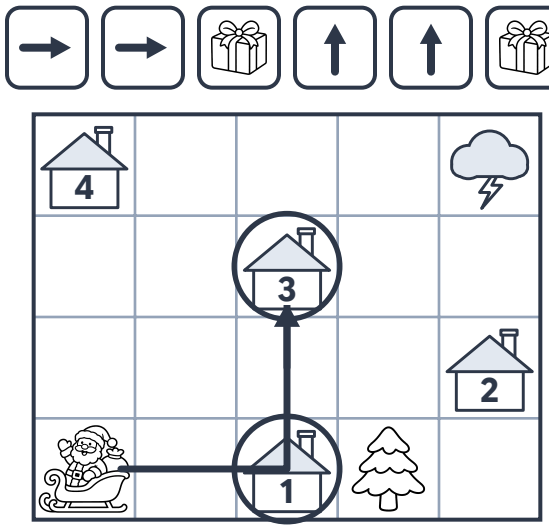


 fly one square

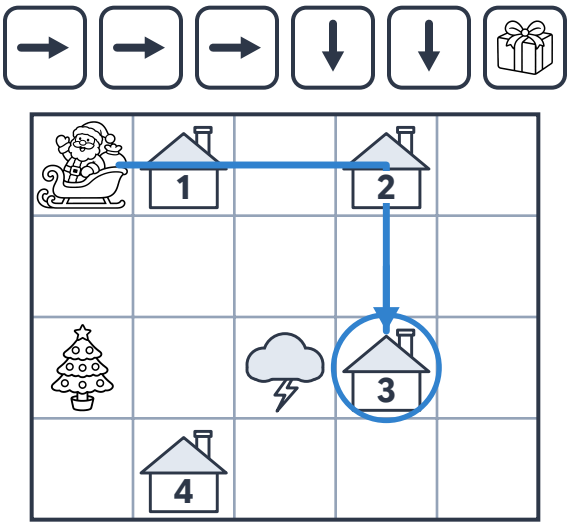
 drops a present down the chimney

The sleigh can fly over houses, but not into trees, storm clouds or towers.

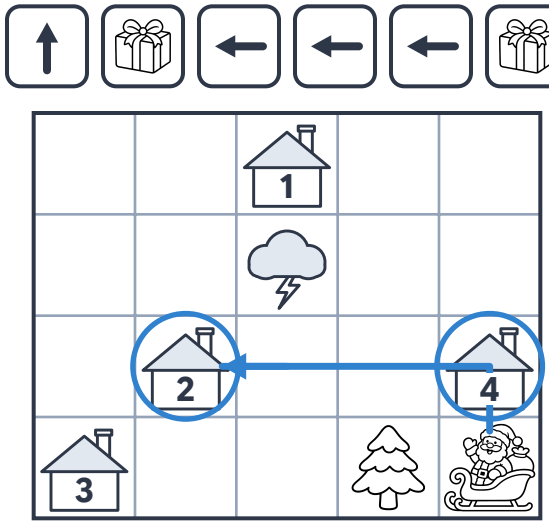
1. Example



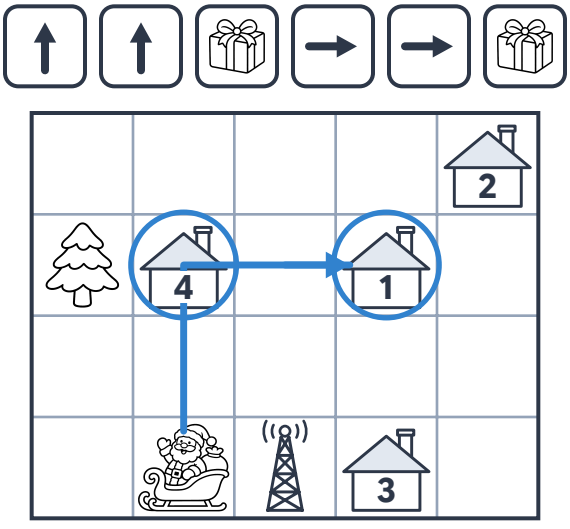
2.



3.



4.



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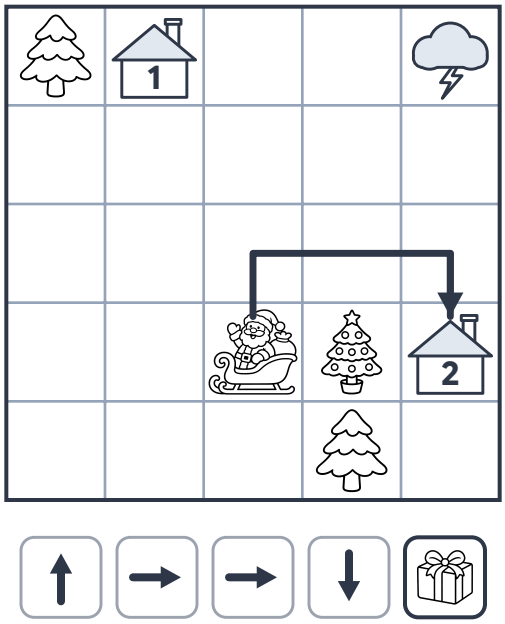


Santa's Sleigh Coding

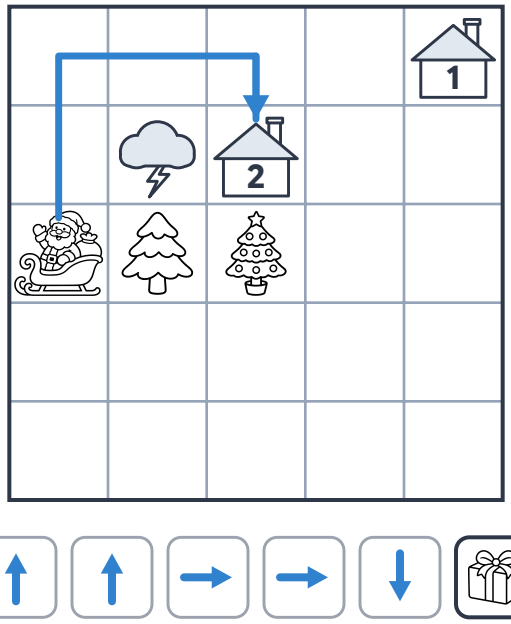
Write the arrows to the house, the shortest way round.



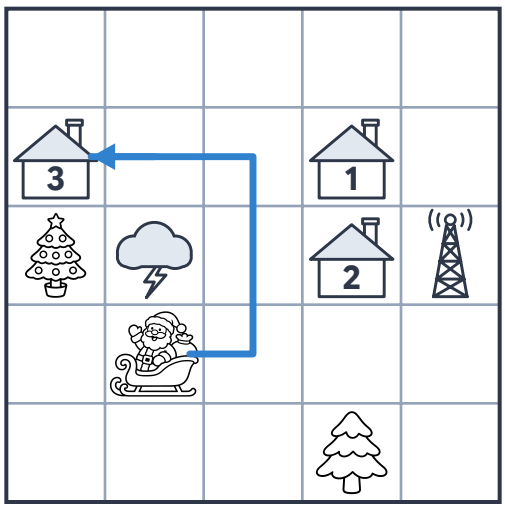
1. Go to house 2. Example

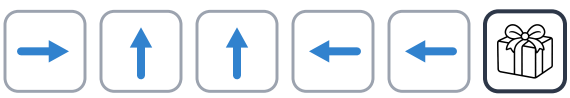


2. Go to house 2.

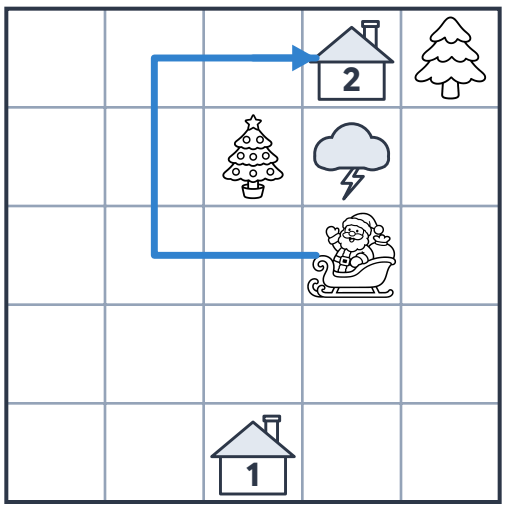


3. Go to house 3.





4. Go to house 2.





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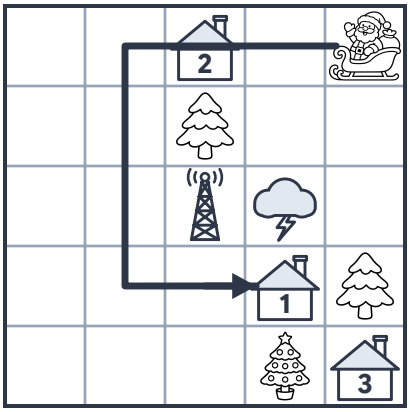


Santa's Sleigh Coding

Write the code: arrows and present cards, the fewest arrows.

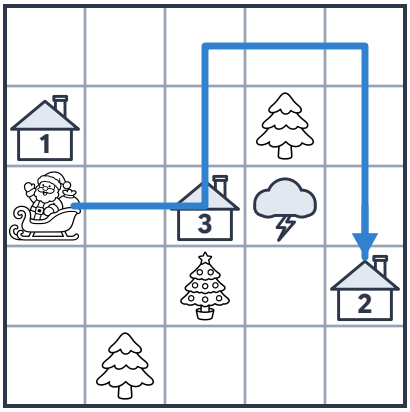


1. House 2, then house 1 Example



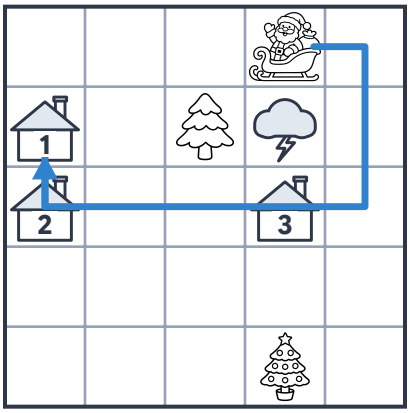


2. House 3, then house 2



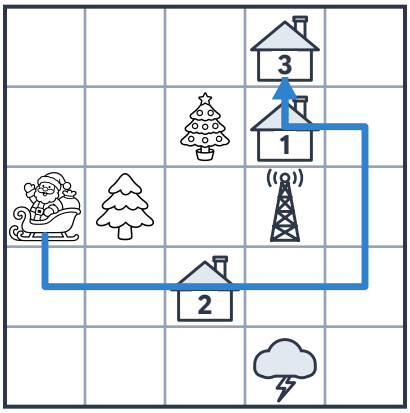


3. House 3, then 2, then 1





4. House 2, then 1, then 3





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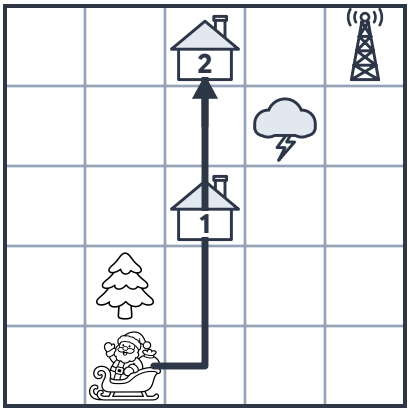
Santa's Sleigh Coding

One card is wrong. Cross it out. Draw the right card under it.



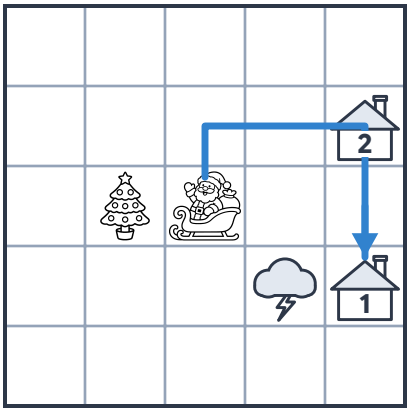
1. House 1, then house 2

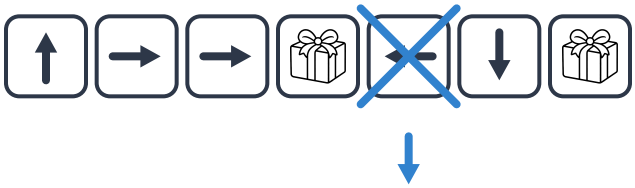
Example



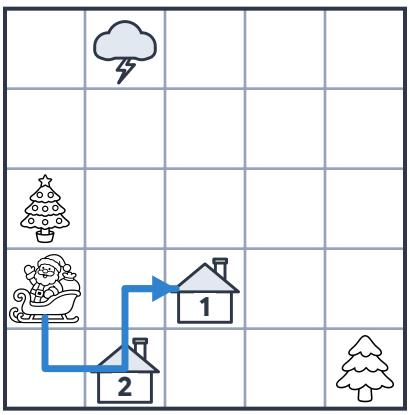


2. House 2, then house 1





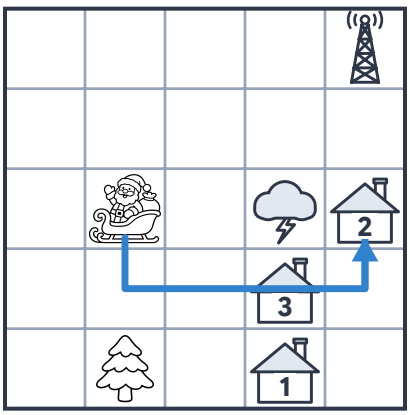
3. House 2, then house 1







4. House 3, then house 2







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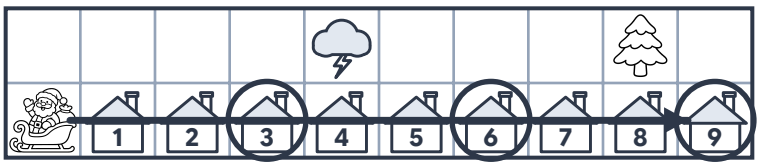


Santa's Sleigh Coding

Follow the first two loops. Then write a loop for each street.

1.

Example

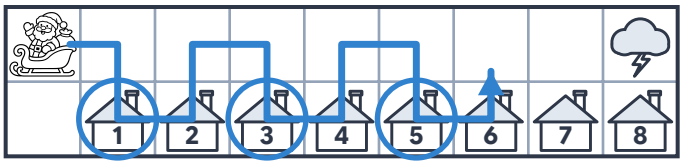


Circle the houses.

repeat 3 times



2.



Circle the houses.

repeat 3 times



3.

Example

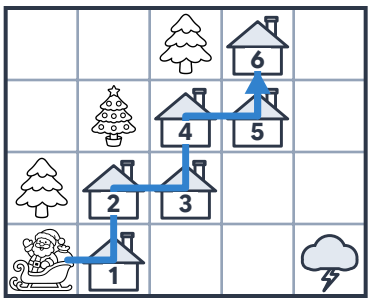


Presents for houses 2, 4, 6 and 8.

repeat 4 times



4.



Presents for houses 2, 4 and 6.

repeat 3 times





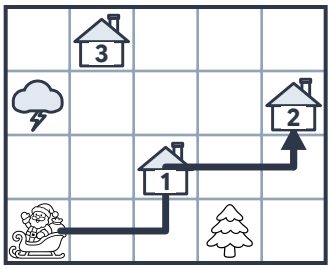
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Santa's Sleigh Coding

Write the long codes shorter. Then loops inside loops!

1.



Example

Long code

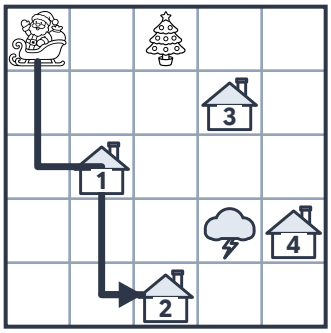


With a loop

repeat 2 times



2.



Long code



With a loop

repeat 2 times



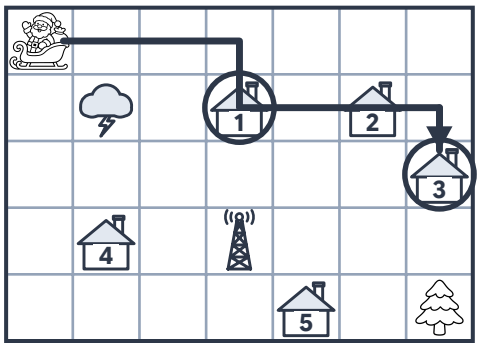


3.

repeat 2 times

repeat 3 times





Example

Circle the houses.

How many cards run?

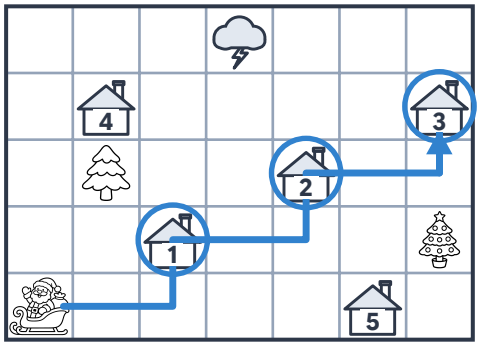
10

4.

repeat 3 times

repeat 2 times





Circle the houses.

How many cards run?

12

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