Sorting Challenge Cards *(cut out to use for sorting challenge activity)*

Charlie	George
Harry	Jack
Jacob	Oliver
Oscar	Thomas

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Sorting Challenge: Team A

The 8 most common names for baby boys in 2015 were (in alphabetical order):

Charlie, George, Harry, Jack, Jacob, Oliver, Oscar, Thomas

You will be split into 3 teams, each competing to sort the eight names.

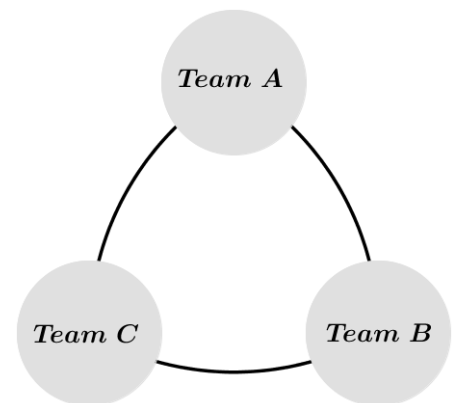Each team will be trying to sort the names according to **different** criteria:

Team A	Team B	Team C
Number of baby boys given this name in the UK in 2015. *Eg 4642 boys named Charlie were born in the UK in 2015.*	**Average age of a man with this name in the US in 2015.** *Eg The average age of a man called Charlie in the US is 53.*	**Relative frequency of this name in literature in 2000.** *Eg Charlie cropped up 13 times per million words in 2000.*

Each team holds information required by another.

You will take it in turns to ask questions:

- Team A will ask Team B a question.
- Team B will ask Team C a question.
- Team C will ask Team A a question.
- Repeat until one team has ordered their list.

To win, you need to put your list in order with the minimum number of questions (comparisons).

You are **Team A**.

The information you need (popularity of baby names) is held by **Team B**

You hold the information needed by **Team C** (frequency of names in literature)

- When it is your turn, ask **two questions**, which must be **comparisons**.
  For instance, "Was Charlie more popular than George?"
- When you are questioned, use the list below, only answering 'yes' or 'no'.

Information required by Team C

Name	Frequency of names in literature
George	88
Thomas	82
Jack	37
Harry	23
Jacob	14
Charlie	13
Oliver	11
Oscar	7

Sorting Challenge: Team B

The 8 most common names for baby boys in 2015 were (in alphabetical order):

Charlie, George, Harry, Jack, Jacob, Oliver, Oscar, Thomas

You will be split into 3 teams, each competing to sort the eight names.
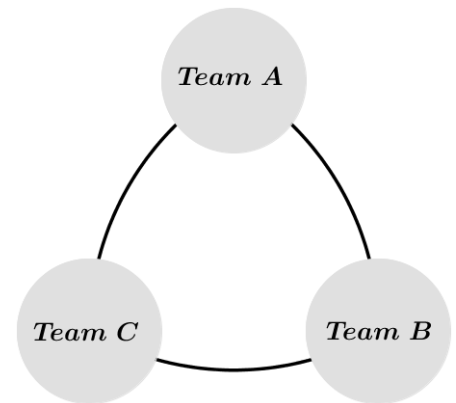Each team will be trying to sort the names according to **different** criteria:

Team A	Team B	Team C
Number of baby boys given this name in the UK in 2015. *Eg 4642 boys named Charlie were born in the UK in 2015.*	**Average age of a man with this name in the US in 2015.** *Eg The average age of a man called Charlie in the US is 53.*	**Relative frequency of this name in literature in 2000.** *Eg Charlie cropped up 13 times per million words in 2000.*

Each team holds information required by another.

You will take it in turns to ask questions:

- Team A will ask Team B a question.
- Team B will ask Team C a question.
- Team C will ask Team A a question.
- Repeat until one team has ordered their list.

To win, you need to put your list in order with the minimum number of questions (comparisons).

You are **Team B**.

The information you need (average age in America) is held by **Team C**
You hold the information needed by **Team A** (popularity of baby names)

- When it is your turn, ask **two questions**, which must be **comparisons**.
  For instance, "Is Charlie older than George?"
- When you are questioned, use the list below, only answering 'yes' or 'no'.

Information required by Team A

Name	Popularity of baby names
Oliver	6649
Jack	5804
Harry	5379
Jacob	5050
Charlie	4642
Thomas	4405
George	4320
Oscar	4269

Sorting Challenge: **Team C**

The 8 most common names for baby boys in 2015 were (in alphabetical order):

Charlie, George, Harry, Jack, Jacob, Oliver, Oscar, Thomas

You will be split into 3 teams, each competing to sort the eight names.
Each team will be trying to sort the names according to **different** criteria:
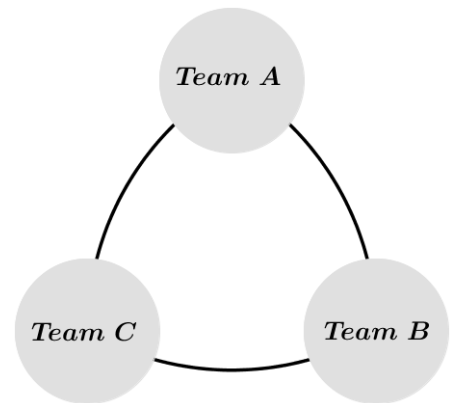
Team A	Team B	Team C
Number of baby boys given this name in the UK in 2015. *Eg 4642 boys named Charlie were born in the UK in 2015.*	**Average age of a man with this name in the US in 2015.** *Eg The average age of a man called Charlie in the US is 53.*	**Relative frequency of this name in literature in 2000.** *Eg Charlie cropped up 13 times per million words in 2000.*

Each team holds information required by another.

You will take it in turns to ask questions:

- Team A will ask Team B a question.
- Team B will ask Team C a question.
- Team C will ask Team A a question.
- Repeat until one team has ordered their list.

To win, you need to put your list in order with the minimum number of questions (comparisons).

You are **Team C**.

The information you need (frequency of names in literature) is held by **Team A**
You hold the information needed by **Team B** (average age in America)

- When it is your turn, ask **two questions**, which must be **comparisons**.
  For instance, "Is Charlie more common than George?"
- When you are questioned, use the list below, only answering 'yes' or 'no'.

Information required by Team B

Name	Average age in America
Harry	63
George	59
Charlie	53
Thomas	52
Jack	41
Oscar	23
Jacob	17
Oliver	10