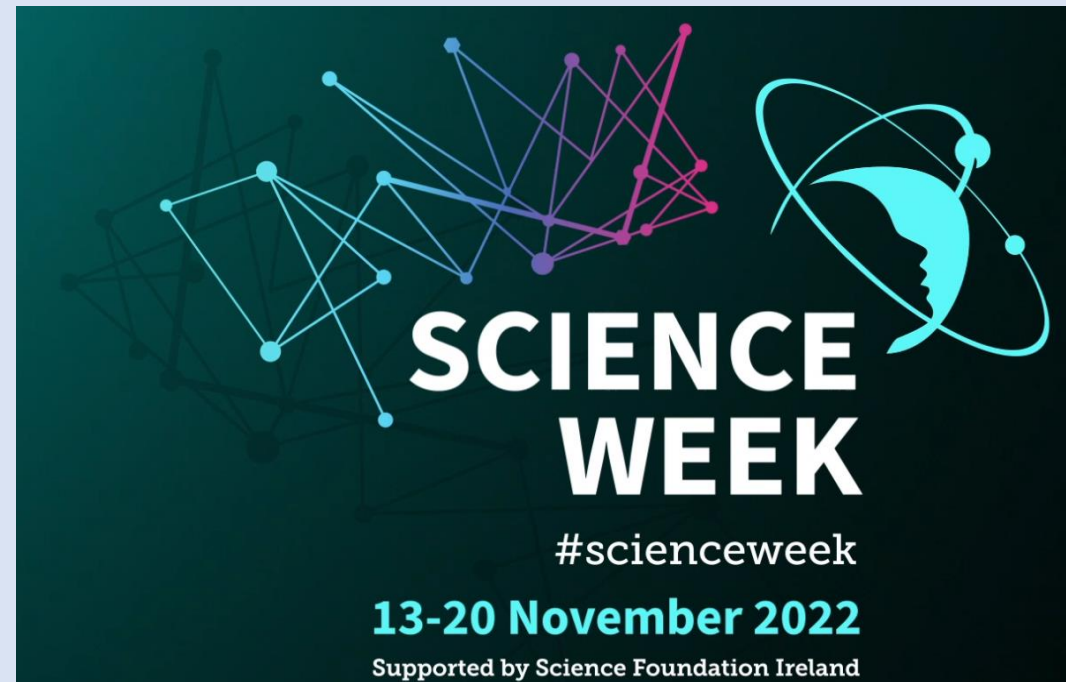




# Computational Thinking Tasks for Science Week 2022



**PACT team**  
Department of Computer Science  
Maynooth University, Ireland



<https://pact.cs.nuim.ie>

# Computational Thinking (CT)

- CT is a set of problem-solving skills that computer scientists use when they do their everyday work
- CT intersects with STEM fields: computational solutions are useful and needed in all scientific fields





# Sports



The BebraFitness sports centre has a volleyball court, a basketball court, a tennis court, and a soccer pitch. Each of four friends, Anna, Bruno, Chris, and Diana, come to BebraFitness once a week to play their different favourite sports. It is known that:

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Volleyball



Soccer



Tennis



Basketball





# Sports



## QUESTION

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	Volleyball	Soccer	Tennis	Basketball
Anna				
Bruno				
Chris				
Diana				



# Sports

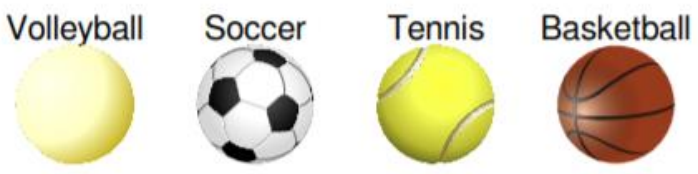


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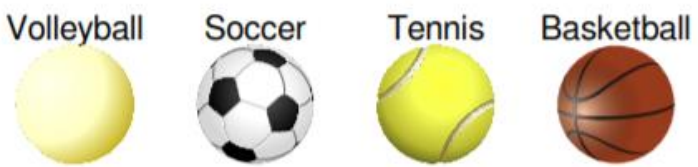


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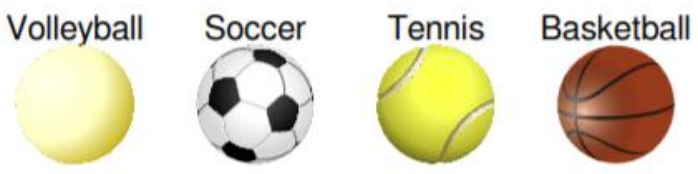


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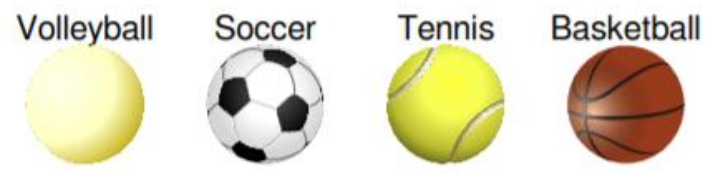


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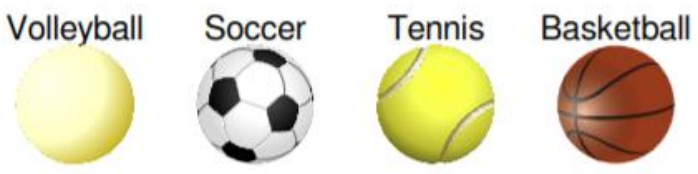


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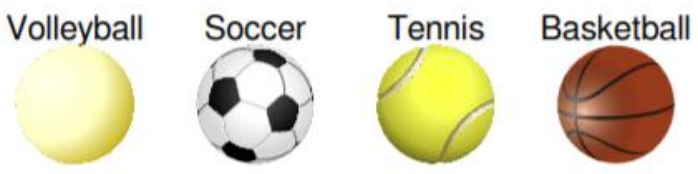


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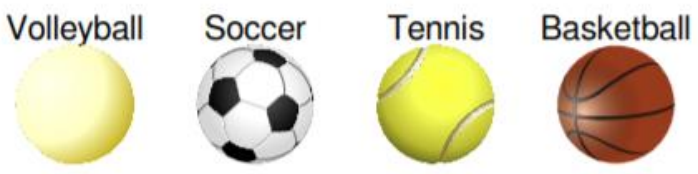


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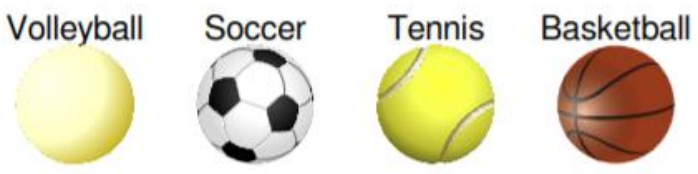


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Deducing new information from the information available





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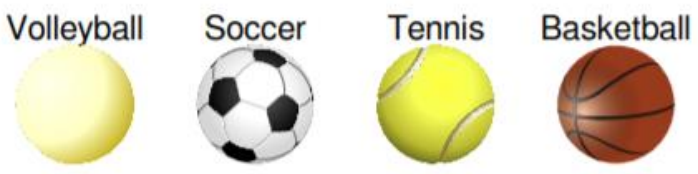


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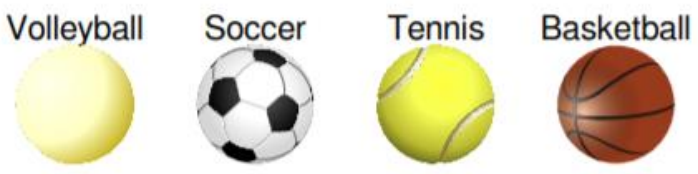


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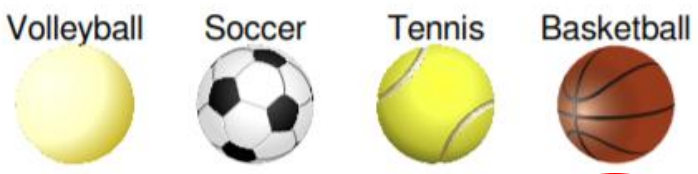


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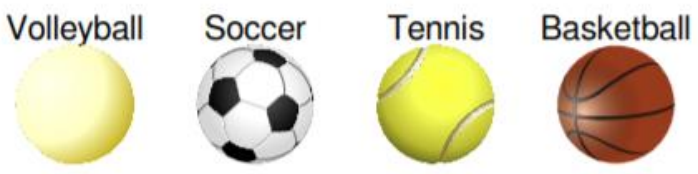


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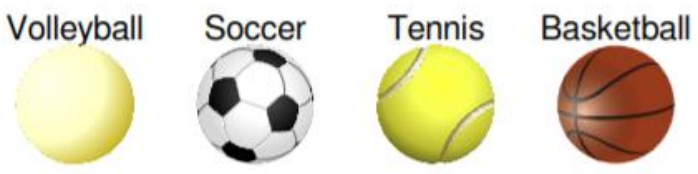


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Soccer



Tennis



Basketball



This task is a good example of **logical reasoning**.  
It was solved using **truth tables**.





# Questions / comments / discussion

See our website for more computational thinking tasks:

**<https://pact.cs.nuim.ie>**

Email: [pact@mu.ie](mailto:pact@mu.ie)

To sign up for the Bebras Challenge  
(taking place 7-25th November 2022):

**<https://bebras.techweek.ie>**