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|  | **Warmup** |  |

## Prompt:

**Use the Birthday App on code.org for this warmup. It has three possible outputs.**

* **Try to find each possible outcome.**
* **Then answer the following questions.**

What is the input to the app?

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What is the output?

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How do you think the app decides which output to give back to the user?

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|  | **Activity Guide - Apps with Processing** |  |

## 

## Key Vocabulary:

**Processing** - The “thinking work” that computers do to turn input into output.

## Apps and Processing

For each app, choose one type of processing it uses and explain how it helps turn the input into output.

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| --- | --- | --- |
| **App Name** | **Type of processing** | **How does it help turn input into output?** |
| **Is It Your Birthday?** | **if/then**  counting  finding a match  comparing | If the birthday is today, then it shows the happy birthday message. |
| **National Park Quiz** | if/then  counting  finding a match  comparing |  |
| **How many countries…?** | if/then  counting  finding a match  comparing |  |
| **My Famous Birthday** | if/then  counting  finding a match  comparing |  |
| **Stamp Notebook** | if/then  counting  finding a match  comparing |  |

## More Processing

For each app, choose **two** types of processing it uses and explain how they help turn the input into output.

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| --- | --- | --- |
| **App Name** | **Type of processing**  **(choose two)** | **How do they help turn input into output?** |
| **Fastest Finger** | **if/then**  **counting**  **finding a match**  **comparing** |  |
| **Guess the Number** | **if/then**  **counting**  **finding a match**  **comparing** |  |
| **Where should I live?** | **if/then**  **counting**  **finding a match**  **comparing** |  |

## Your App Idea

With your partner, think of a new app idea. What inputs does it need? What outputs? What types of processing does it use to change the input to output?

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| --- | --- |
| **App idea** |  |
| **Inputs** |  |
| **Outputs** |  |
| **Types of processing** |  |
| **How processing turns helps turn input to output** |  |

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|  | **Wrap Up** |  |

## Prompt:

**We saw four different types of processing today, but there are many more.**

What’s another type of processing that you think would be useful?

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What kind of app might use it?

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## Question Of The Day

What are the different ways computers can process information?

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