Welcome to our class!
Week [20]: 2/22/21 - 2/26/21
FSSAHS-AP Computer Science Principles-Mr. Moore

Wednesday, February 24, 2021

Aim: How can I create an original function block for my Mini-Create Task, and how can I call it with different arguments?

Resources: Google Classroom, Weekly Calendar, Do Now, Enhanced Make Your Snap! Pop tutorial, College Board's AP Classroom, Create rubric

Labs can be challenging, but remember that you can always ask for help. Make use of these supports:

- **In-class assistance of Mr. Moore, TEALS volunteers, and peer tutors**
- **Office hours from 2:20-2:40PM daily at our Zoom link**
- **help@fssahs.org Help Desk email**
- **Instructions in BJC labs**
- **Assistance from peers in Breakout Rooms**

Announcements
*You Are Ready. Take Control.
We will transition now to the major project of the course: The Create Task. At last, you will now make your own program. We will practice for this with The Mini-Create Task. The College Board mandates that students be given time in class to work on The Create Task. Your homework as we work in class on The Create Task will largely be to complete BJC labs that involve reading online text and demonstrating understanding; i.e., we are taking a break from programming labs.
*Keep Your Ambition in Check:
The best advice I have for you here is to follow directions extremely carefully. Some of you are quite ambitious, which is great, but be realistic about what you can get done in the time we have.
*No Peer Tutors?! How Dare You! The stakes are too high here not to give all students a chance to complete this work and prepare for the AP Exam Create Task. We always appreciate our Peer Tutors, and we will need your help again in the future!

Procedure:

1. **Join our Zoom meeting!**
2. **5 minutes: Do Now**
3. **5 minutes: Class Discussion - Making Your Own Functions**
4. **10 minutes: TEALS Enrichment Activity - The Fun of Making Functions**
5. **15 minutes: Breakout Rooms - adding a function**
6. **1 minute: Attendance, Summary, and Waterfall**

Homework - Add an original function block to your Mini-Create Task program, and ensure that it is called twice with different arguments.
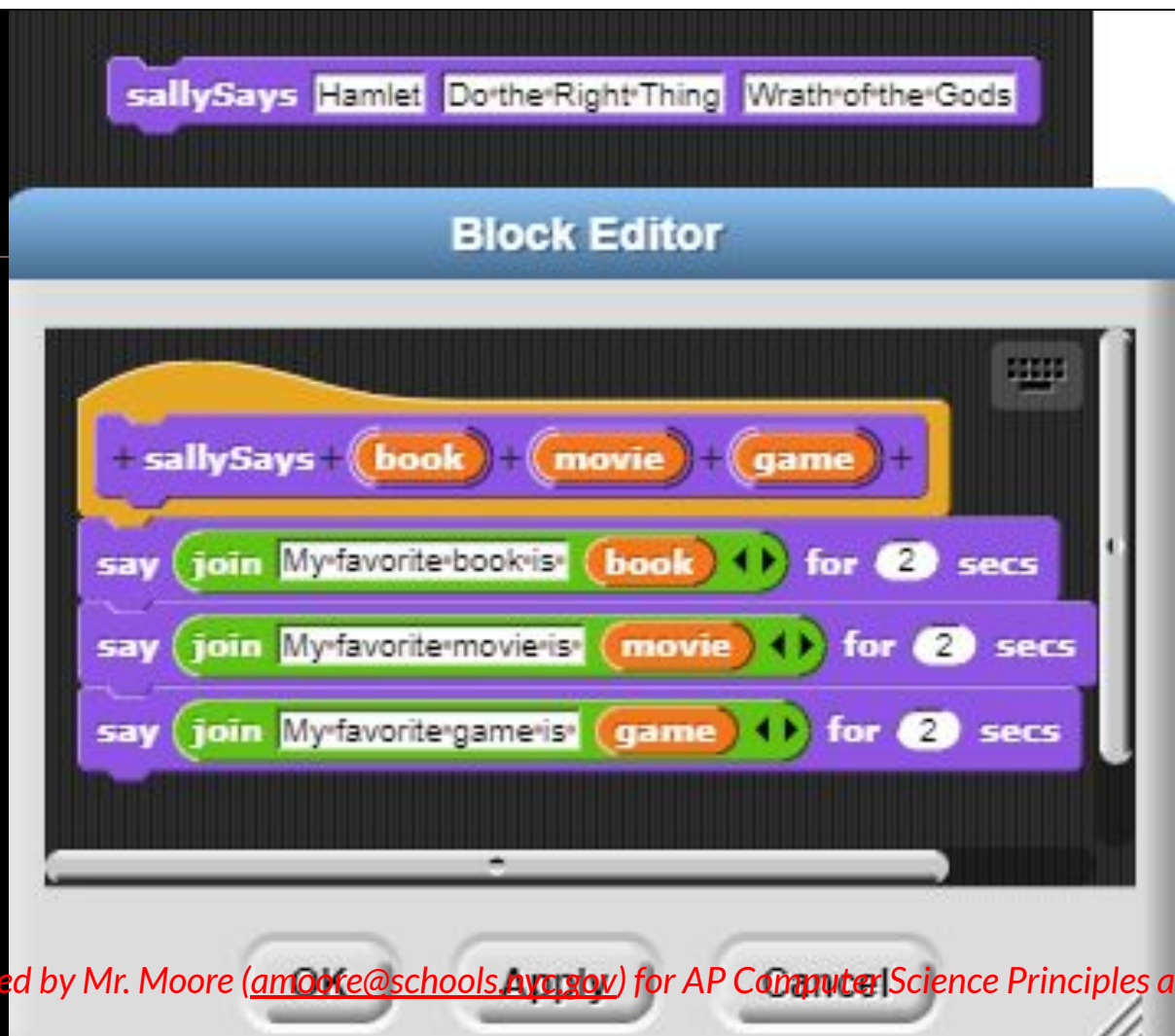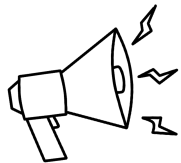   //Created by Mr. Moore (amoore@schools.nyc.gov) for AP Computer Science Principles at FSSAHS.

What we've been *doing now...*
In addition to evaluating the veracity of some Boolean expressions, students weighed in on the societal value of the Internet or lack thereof and possible political leanings of programmers. Your claims? Most of you believed that the Internet has improved our lives in terms of giving us access to schooling, knowledge, and human contact. Strong arguments were made on both sides about the likely political leanings of programmers.
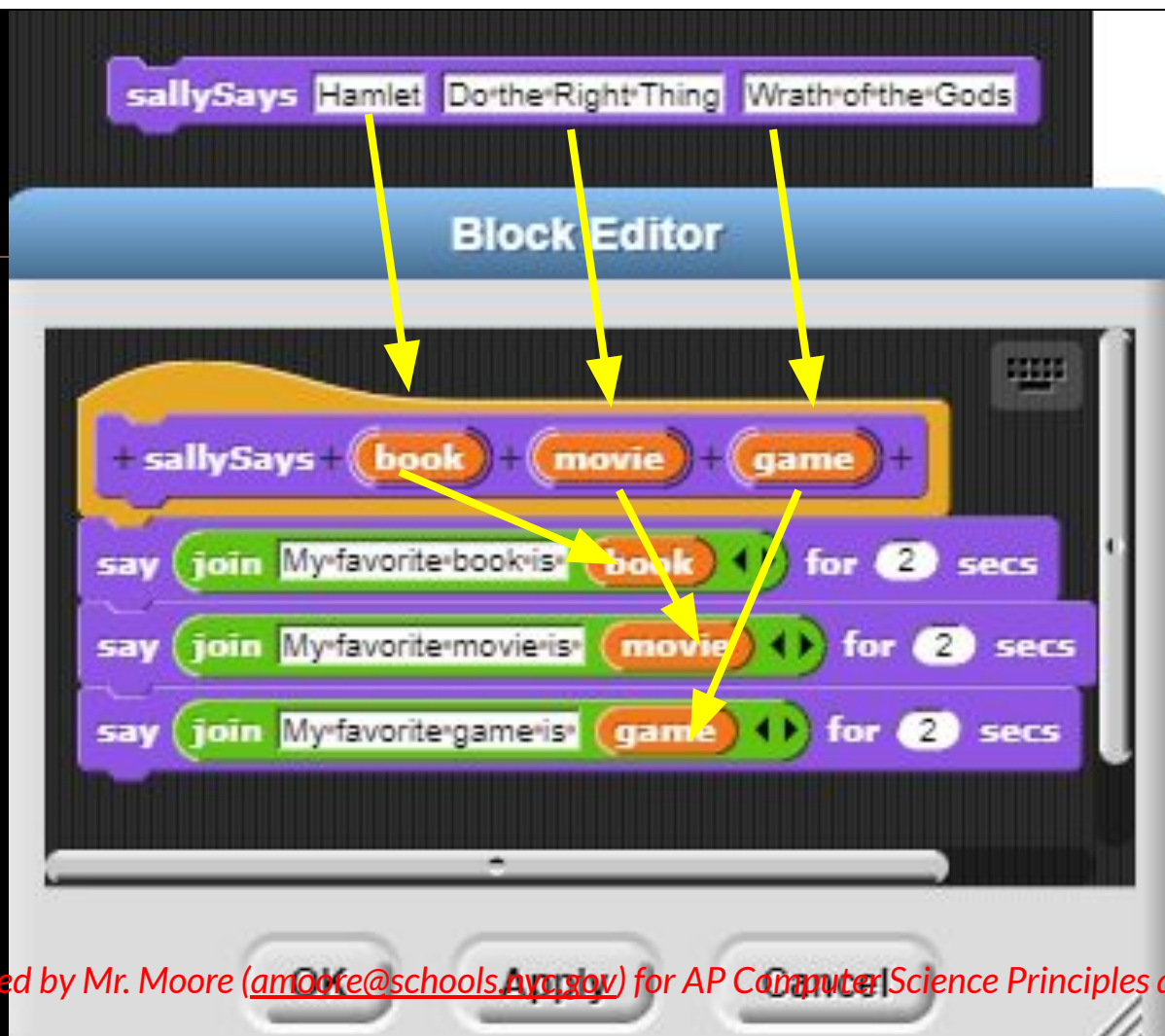
sallySays   Hamlet   Do the Right Thing   Wrath of the Gods

Block Editor

sallySays   book   movie   game

say   join   My favorite book is   book   ◀▶   for   2   secs

say   join   My favorite movie is   movie   ◀▶   for   2   secs

say   join   My favorite game is   game   ◀▶   for   2   secs

OK   Apply   Cancel

Source: wired.com

What we've been *doing now*... In addition to evaluating the veracity of some Boolean expressions, students weighed in on the societal value of the Internet or lack thereof and possible political leanings of programmers. Your claims? Most of you believed that the Internet has improved our lives in terms of giving us access to schooling, knowledge, and human contact. Strong arguments were made on both sides about the likely political leanings of programmers.
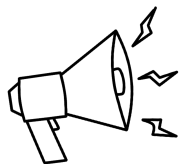
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What we've been *doing now*... In addition to evaluating the veracity of some Boolean expressions, students weighed in on the societal value of the Internet or lack thereof and possible political leanings of programmers. Your claims? Most of you believed that the Internet has improved our lives in terms of giving us access to schooling, knowledge, and human contact. Strong arguments were made on both sides about the likely political leanings of programmers.

Block Editor

sallySays Hamlet Do the Right Thing Wrath of the Gods

sallySays Hamlet Do the Right Thing Wrath of the Gods

say join My favorite book is Hamlet for 2 secs

say join My favorite movie is Do the Right Thing 2 secs

say join My favorite game is Wrath of the Gods 2 secs

OK   Apply

Welcome to our class!
Week [4]: 10/12/20 - 10/18/20
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Student-submitted Resources in the Enrichment Section for Google Classroom follow:
*Olivia shared a link to the Netflix series *The Social Dilemma*.
*Destiny shared a link to beatswithcode.org where musically-inclined students can use a language called Max to make beats.
*Carolina shared a link to *The New York Times'* Rabbit Hole Podcast.

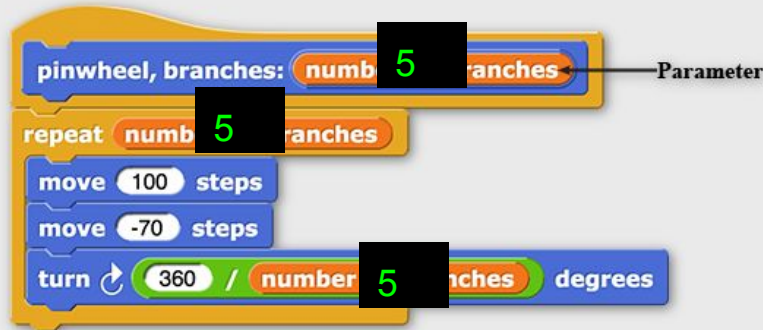Isabella and Sydney also asked some great questions in the Solution Thread.

Vocabulary: What's an input? Parameter vs. Argument

- A **parameter** (or *formal parameter*) is the input *name*, such as number of branches. The input name is set in the block definition. It never changes.

```
pinwheel, branches: number of branches    ← Parameter

repeat number of branches
  move 100 steps
  move -70 steps
  turn ↻ 360 / number of branches degrees
```

- An **argument** (or *actual argument*) is the input *value*, such as 6 for a hexagonal pinwheel. The input value is given each time the block is run; it can be a different value each time.

```
pinwheel, branches: 6    ← Argument
```

We use the word "input" both for parameters (input names) and for arguments (input values).

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Vocabulary: What's an input? Parameter vs. Argument

- A **parameter** (or *formal parameter*) is the input *name*, such as number of branches. The input name is set in the block definition. It never changes.

pinwheel, branches: number 5 branches — **Parameter**

repeat numb 5 ranches

move 100 steps

move -70 steps

turn 360 / number 5 nches degrees

- An **argument** (or *actual argument*) is the input *value*, such as 6 for a hexagonal pinwheel. The input value is given each time the block is run; it can be a different value each time.

pinwheel, branches: 6 — **Argument**

We use the word "input" both for parameters (input names) and for arguments (input values).

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Week [4]: 10/12/20 - 10/18/20

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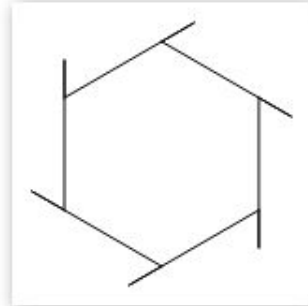
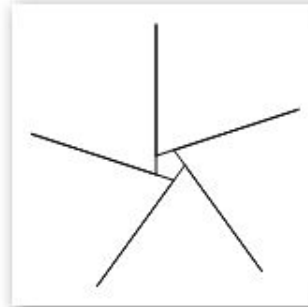6. Try out a variety of inputs to your **pinwheel** program...

pinwheel, branches: 6 **size:** 80 **backup:** 20

pinwheel, branches: 5 **size:** 80 **backup:** 60

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