

Getting Started

For You to Do

You're in a class with a total of five students: Rocky, Bullwinkle, Peabody, Sherman, and (your name here). You want to choose a committee to get the refreshments for the class party. Remember that "Rocky and Sherman" is the same committee as "Sherman and Rocky,"

1.
 - a. How many different committees of three people include Bullwinkle?
 - b. How many different committees of three people *don't* include Bullwinkle?
 - c. How many different committees of three people are there in a group of 5 students?

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Some people call this the "distinguished member method." Bullwinkle is the distinguished member. You count all the committees that contain Bullwinkle, then count all the committees that don't, and then

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2.
 - a. How many 2-person committees can you make from 5 students?
 - b. How many 3-person committees can you make from 6 students?
 3.
 - a. How many 1 member committees can you form from 100 students?
 - b. How many 99 member committees can you form from 100 students?
 - c. How many 100 member committees can you form from 100 students?
 - d. How many 0 member committees can you form from 100 students?

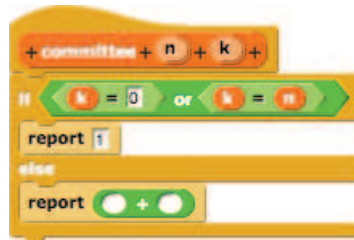
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One idea: use the result of problem 1 and the distinguished member method.

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How can you have a committee with 0 members? Find a way for that to make sense.

4. Describe the “distinguished member method” in words, so precisely that others in your class understand it.
5. Here’s a start on a reporter that will return the number of k -person committees that can be formed from n -students.



Finish it off.