Lone-Chooser Examples
Lecture 17
Section 3.4

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Outline

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3 Players, 3 Assets

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	Apple	Cherry	Lemon
Andy	3	6	9
Bob	4	2	6
Chuck	6	6	3

- Andy, Bob, and Chuck will divide three pies among themselves.
- Use the lone-chooser method to divide the pies with
  - Andy as the first divider
  - Bob as the first chooser
  - Chuck as the second chooser.

Outline

3 Players, 4 Assets

3 Players, 4 Assets

	Apple	Cherry	Lemon	Pecan
Andy	4	8	6	6
Bob	5	4	4	8
Chuck	2	6	4	6

- Andy, Bob, and Chuck will divide four pies among themselves.
- Use the lone-chooser method to divide the pies with
  - Andy as the first divider
  - Bob as the first chooser
  - Chuck as the second chooser

The Lone-Chooser Method

3 Players, 4 Assets

	Apple	Cherry	Lemon	Pecan
Andy	6	6	4	2
Bob	5	8	4	4
Chuck	6	4	4	7

- Andy, Bob, and Chuck will divide four pies among themselves.
- Use the lone-chooser method to divide the pies with
  - Andy as the first divider
  - Bob as the first chooser
  - Chuck as the second chooser

Outline

Example

The Lone-Chooser Method – 3 Players, 5 Assets

	Apple	Blueberry	Cherry	Lemon	Pecan
Andy	3	6	3	4	2
Bob	8	4	2	6	1
Chuck	6	4	2	4	2

- Andy, Bob, and Chuck are dividing 5 pies: apple, blueberry, cherry, lemon, and pecan.
- Use the lone-chooser method to divide the pies with
  - Andy as the first divider
  - Bob as the first chooser
  - Chuck as the second chooser.

Example

The Lone-Chooser Method – 3 Players, 5 Assets

	Apple	Blueberry	Cherry	Lemon	Pecan
Andy	3	6	3	4	2
Bob	2	4	6	2	1
Chuck	6	4	2	4	2

- Bob changes his mind! He really doesn't want apple and he would much rather have cherry than lemon.
- Use the lone-chooser method to divide the pies with
  - Andy as the first divider
  - Bob as the first chooser
  - Chuck as the second chooser.

Outline

Outline

The Lone-Chooser Method

4 Players, 3 Assets

	Apple	Cherry	Lemon
Andy	8	4	12
Bob	5	3	12
Chuck	4	6	6
Dave	8	8	12

- Andy, Bob, Chuck, and Dave will divide three pies among themselves.
- Use the lone-chooser method to divide the pies with
  - Andy as the first divider
  - Bob as the first chooser
  - Chuck as the second chooser
  - Dave is the third chooser

Outline

Assignment

Assignment

- Same as previous assignment.