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# Title

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## ABSTRACT

## 1 Data Structure

### 1.1 Agent

- S\_Id: integer
- acceptable categories: set of integers

### 1.2 Categories

- C\_Id: integer
- priority: list of integers
- capacity: integer

### 1.3 Outcome

- data\_id
- algorithm\_name
- matching: dictionary
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## 2 Data Generation

this is a function

- input: number of agents, number of categories, Mallows model (parameter)
- output: a data set

## 3 Algorithm

## References