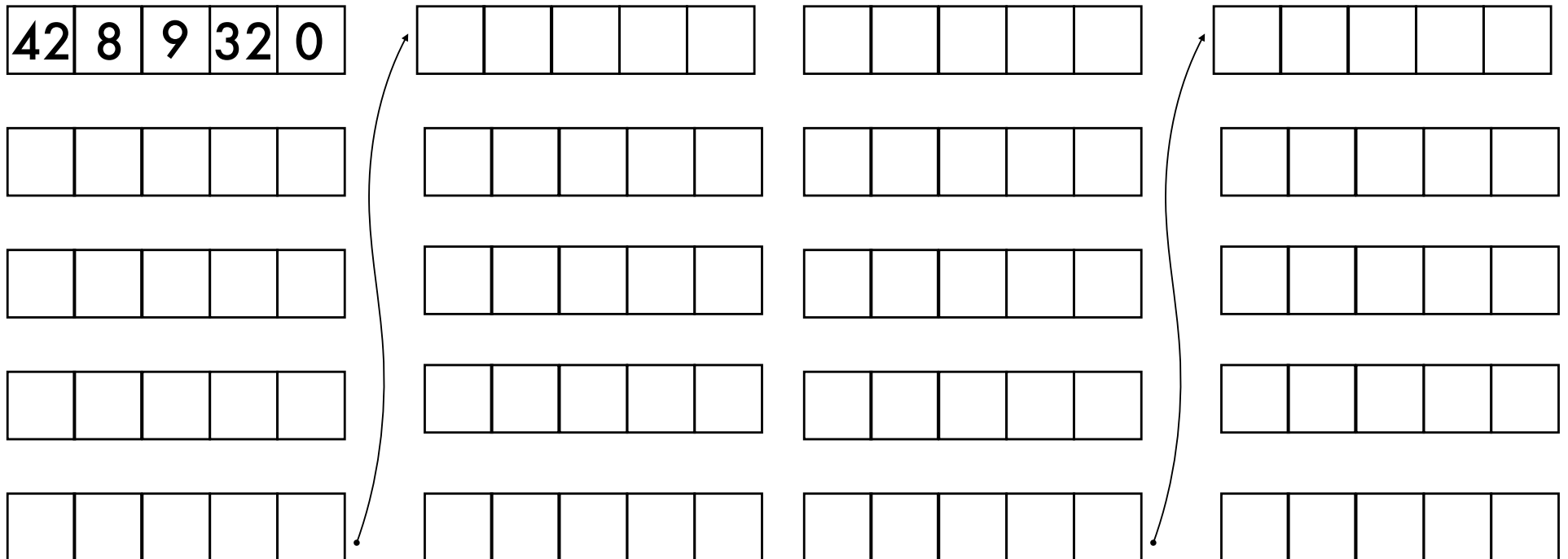


CS105

week 14/15 handout

sorting, binary, objects

[42, 8, 9, 32, 0]



sorting operations

1:

2:

Swap Two

```
var items = [42, 23, 10];  
// how to swap items[0] with items[1]?  
// write the JavaScript code  
// after: [23, 42, 10];
```

measure efficiency

1:

2:

Binary

1. Convert the binary number 011001 to decimal

32	16	8	4	2	1
2^5	2^4	2^3	2^2	2^1	2^0

2. Convert the decimal number 59 to binary

32	16	8	4	2	1
2^5	2^4	2^3	2^2	2^1	2^0

```
var personOneFirstName = "Bob";      var personTwoFirstName = "Jane";  
var personOneLastName  = "Smith";   var personTwoLastName  = "Pribble";  
var personOneAge        = 18;        var personTwoAge        = 20;  
var personOneMajor      = "Economics"; var personTwoMajor      = "Business";  
var personOneYear       = 1;         var personTwoYear       = 3;  
var personOneColors     = ["red"];    var personTwoColors     = ["green", "yellow"];
```

// modeling 'people'

// How do we manage many people?

// How to hold many people ?

JavaScript array
of "people":