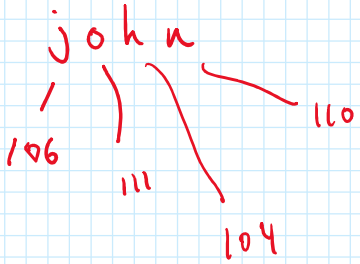
Students
first
last
gpa

30 students
100 element array

array
student

"iyad" "obeid" → 17
"joe" "piccone" → 5

first
last
→ hash function → index



$\sum_i = 431$

106
111
104
110
431

arrayLen = 100

index = (431 % 100) = 31
arrayLen

njoh → 31

$$(((106*5.7)+111)5.7+104)5.7+110 \;\%\; 100$$

$$((106^{2.5}+111)^{2.5}+104)^{2.5}+110 \;\%\; 100$$

Read about fun hash function strategies