Prob 1
SID SFrame SL name SMI Score1, Score 5 12879. Jim Cox 4 80 90 95 1008
One student One record Assume get methods for all fields.
12879 90
output sorried by SID Pools
128794
in each reducer
It needs a reducer
method reduce (SID, [ave]). Emit (SID, ave)

method mapl -Prop1 id < getSID() S1+ get Score1() 524 gel-Score 2() S3 = get-Score3() 544 get Score4() S5 (get Scores () $| ave \leftarrow (51+52+53+54+55)/5$ Emit(id , ave) method reduce (id, [ave]) Pool 2 Emit(id, ave) Pro64 method mapa f < getFname() 1 + gd Lname() m < get.MI() Emit((l,f,m), ave) Anything That needs to be or grouped must be in the key Sorted

Pr. Asc Iname

Sec.
Fint Desc

Ter. MI Asc

Ada Rose B 90

Ada Rose D 95

Ada Bob A 78

Ada Bob H 89

Ada Alhena Z 100

Cox Rose A 97

Cox Bob J 92

int comparato (Object, OI, Object O2) k = comparato (OI. Lname, O2. Lname) $if (k \cdot j = 0)$ return k k = comparato (OI. Fname, O2. Fname) $if (k \mid = 0)$ return -kreturn comparato (OI. MI, O2. MI)