For each student:
get five colors
if color in map:
get old value
add 1 to get new
replace old with new
else
add color w/ value 1

Map: allows value lookups based on key
(Dictionary)
check for key present
update/add value for key

key
orange II
blue III
Yale blue III
purple I
grey I
red I
pink I
black II
green II
unsorted array implementation

O(n)
char *dest = malloc(sizeof(char) * 4);  
strcpy(dest, "PEK");  
smap->put(dest, 1);  
strcpy(dest, "1AD");
map.put

m

key

value

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m = table[index].value = value;
```c
int u old = smap-get(m, "6RU");
if (old) ++;
OR
int u new = malloc(sizeof(int));
free(old);
```