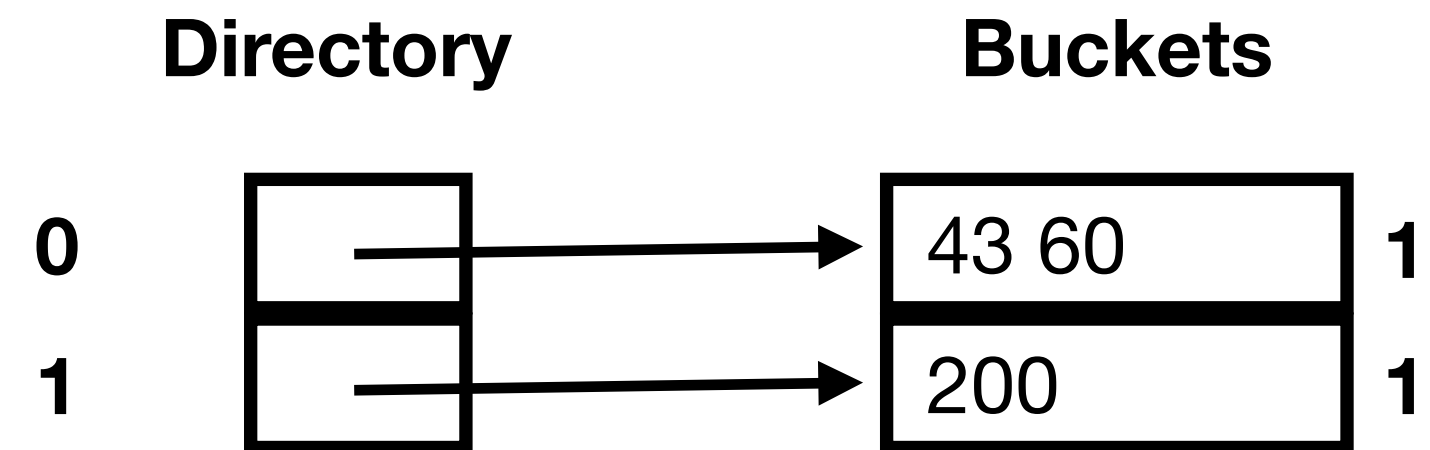


Quiz 7 Solution

What does an extendable hash table with a bucket size of 2 look like after the following values are inserted? Redraw the table each time the directory size doubles. Assume the values are inserted in the order shown below and the initial directory size is 2.

Table After 200, 43 and 60 are added

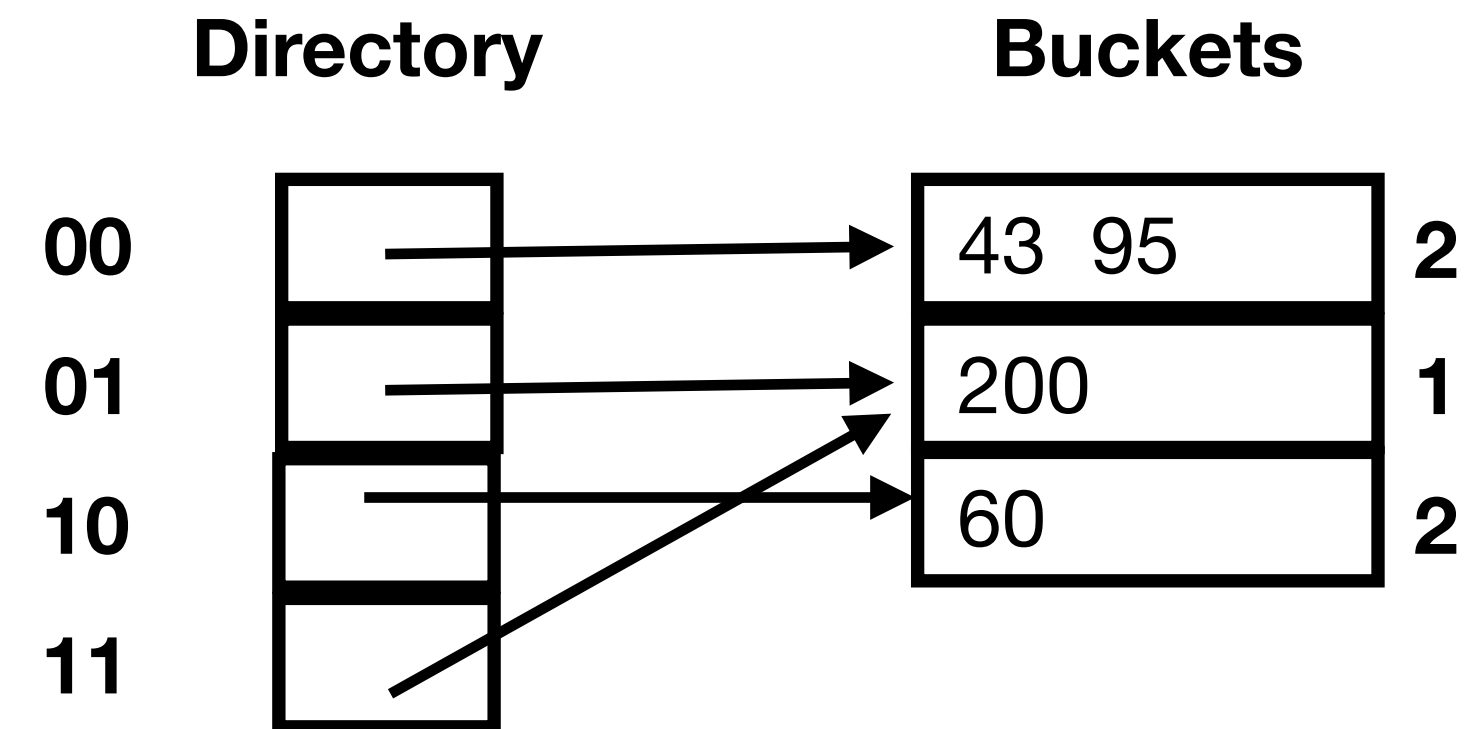
<u>Key</u>	<u>Hash Value</u>
200	100011
43	101000
60	111010
95	001100
120	110101
230	010111
87	000100
52	110110



What does an extendable hash table with a bucket size of 2 look like after the following values are inserted? Redraw the table each time the directory size doubles. Assume the values are inserted in the order shown below and the initial directory size is 2.

Table After 95 is added

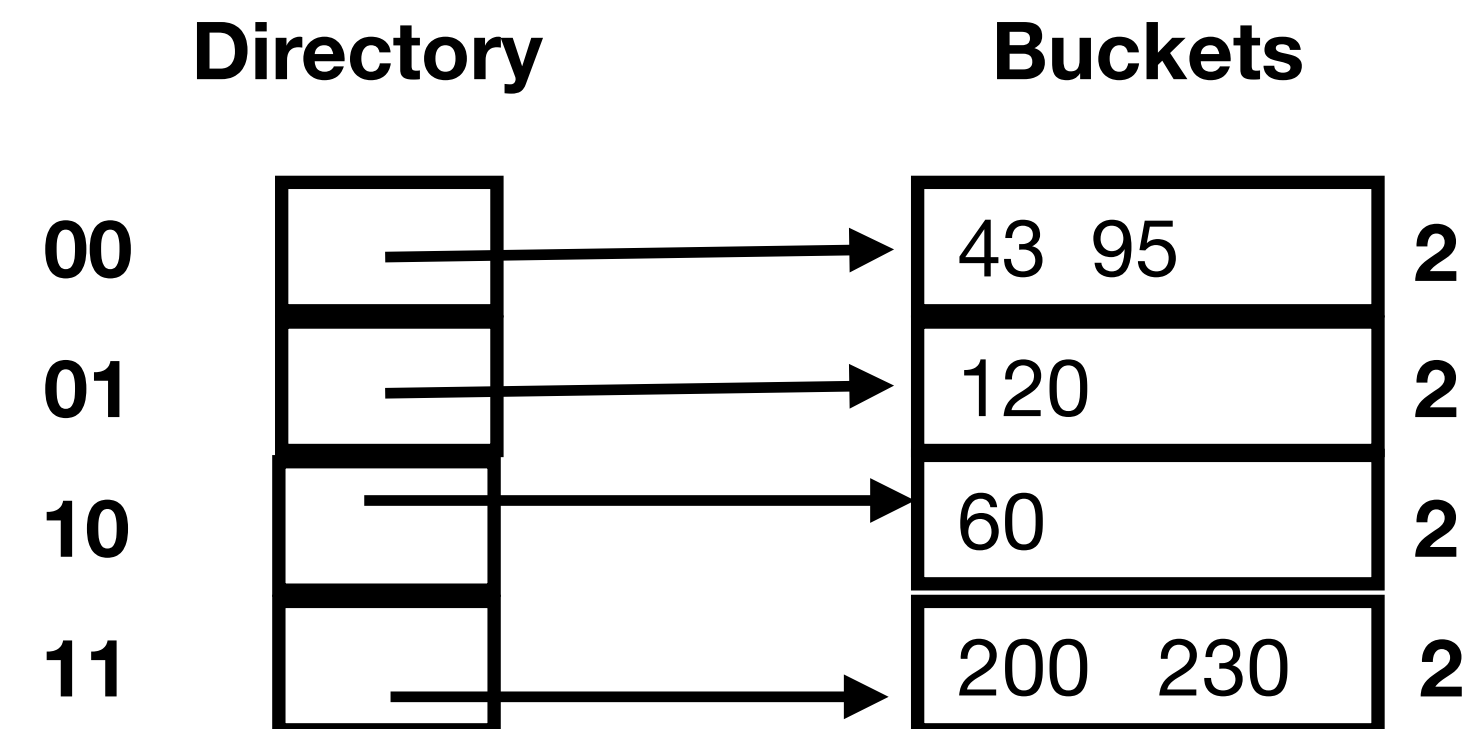
<u>Key</u>	<u>Hash Value</u>
200	100011
43	101000
60	111010
95	001100
120	110101
230	010111
87	000100
52	110110



What does an extendable hash table with a bucket size of 2 look like after the following values are inserted? Redraw the table each time the directory size doubles. Assume the values are inserted in the order shown below and the initial directory size is 2.

Table After 120 and 230 are added

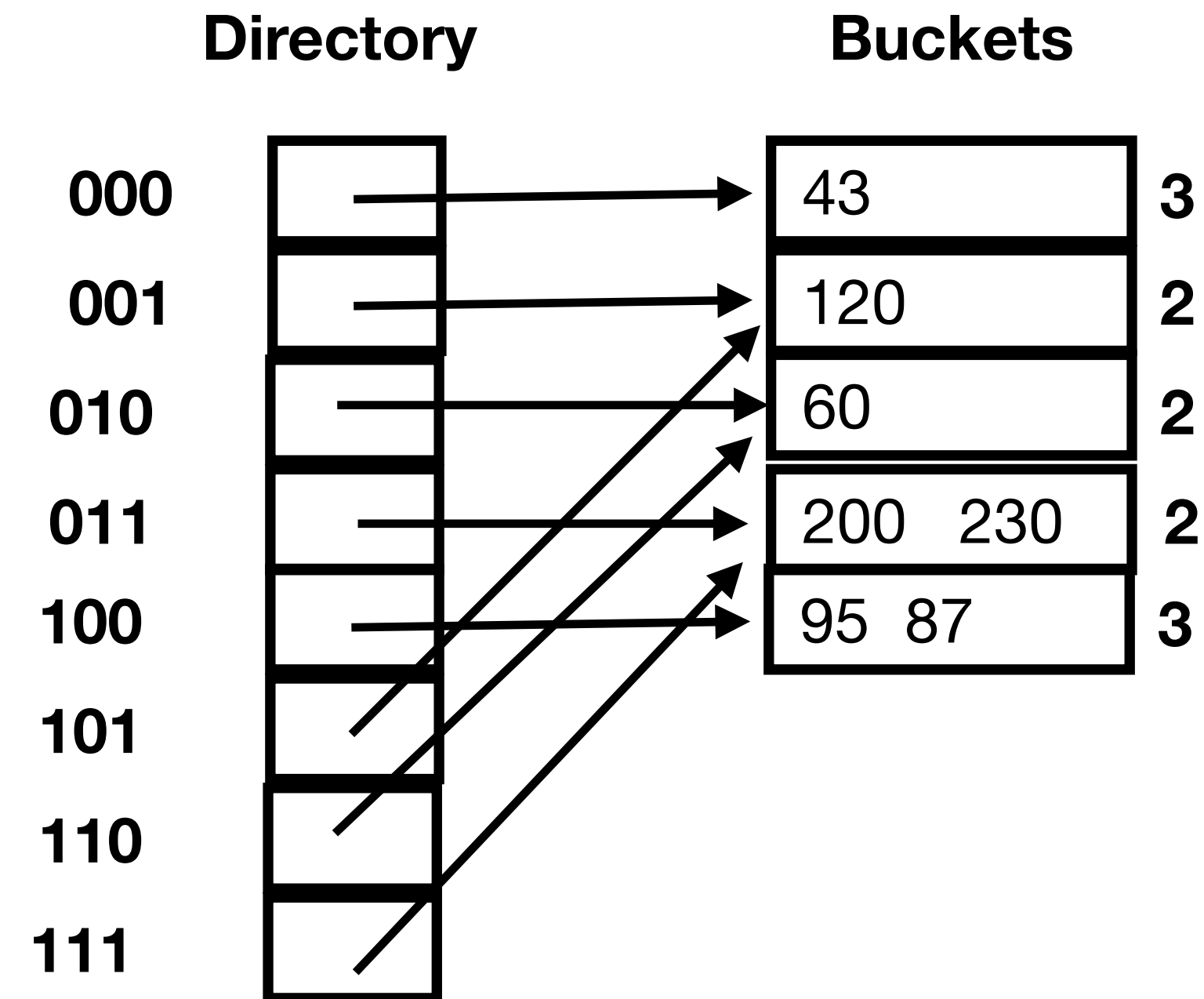
<u>Key</u>	<u>Hash Value</u>
200	100011
43	101000
60	111010
95	001100
120	110101
230	010111
87	000100
52	110110



What does an extendable hash table with a bucket size of 2 look like after the following values are inserted? Redraw the table each time the directory size doubles. Assume the values are inserted in the order shown below and the initial directory size is 2.

Table After 87 is added

<u>Key</u>	<u>Hash Value</u>
200	100011
43	101000
60	111010
95	001100
120	110101
230	010111
87	000100
52	110110



What does an extendable hash table with a bucket size of 2 look like after the following values are inserted? Redraw the table each time the directory size doubles. Assume the values are inserted in the order shown below and the initial directory size is 2.

Table After 52 is added

<u>Key</u>	<u>Hash Value</u>
200	100011
43	101000
60	111010
95	001100
120	110101
230	010111
87	000100
52	110110

