**//Part (a):**

public int findHorseSpace(String name)

{

for (int i = 0; i < spaces.length; i++)

{

if (spaces[i] != null && name.equals(spaces[i].getName()))

{

return i;

}

}

return -1;

}

**//Part (b)**

public void consolidate()

{

for (int i = 0; i < spaces.length - 1; i++)

{

if (spaces[i] == null)

{

for (int j = i + 1; j < spaces.length; j++)

{

if (spaces[j] != null)

{

spaces[i] = spaces[j];

spaces[j] = null;

j = spaces.length;

}

}

}

}

}

**//Part (b): Alternative solution (auxiliary with array)**

public void consolidate()

{

Horse[] newSpaces = new Horse[spaces.length];

int nextSpot = 0;

for (int i = 0; i < spaces.length; i++)

{

if (spaces[i] != null)

{

newSpaces[nextSpot] = spaces[i];

nextSpot++;

}

}

spaces = newSpaces;

}

**//Part (b): Alternative solution (auxiliary with ArrayList)**

public void consolidate()

{

ArrayList<Horse> horseList = new ArrayList<Horse>();

for(int i = 0; i < spaces.length; i++)

{

if (spaces[i] != null)

{

horseList.add(spaces[i]);

}

}

for (int i = 0; i < spaces.length; i++)

{

spaces[i] = null;

}

for (int i = 0; i < horseList.size(); i++)

{

spaces[i] = horseList.get(i);

}

}