

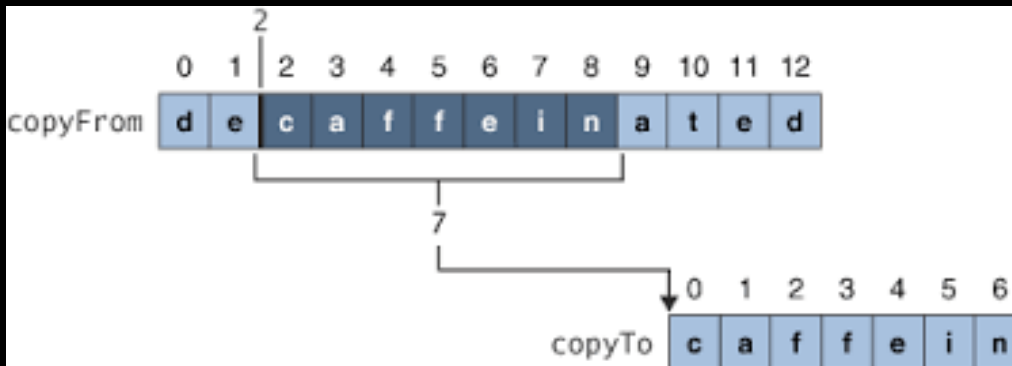
AP Computer Science Mr Hanley

[The Hood](#)

Homework: Array Copying

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Homework: Array Copying

Copying from partially filled arrays is an important skill for a programmer!

You will maintain 3 arrays of Strings.

The first array contains foods that you might try someday.

The second list contains foods you've already tried.

The third list is foods you have decided you are NOT going to try.

Provide a menu so a user can display all of the list at the same time

NOTE: If you are looking for where to insert a food to try for option 7, you need to check for a null String or an empty String, either one is a spot to put the new food

```
if(tryList[i] == null || tryList[i].equals("")) {
```

```
//we can put a new food here
}
```

```

***      Array Copying Menu      ***
-----
  ❶ = Display Lists
  ❷ = Move from First List to 2nd
  ❸ = Move from First List to 3rd
  ❹ = Consolidate First List
  ❺ = Initialize
  ❻ = Clear Tried List
  ❼ = Add to Try List
  ❽ = Exit
Your Selection?

```

Initialize will populate the first two arrays with values but clear the last one.
 Copy from first to third must allow a user to select the starting and ending elements to move.
 Those are copied to the end of the list (either 2 or 3 depending)
 Watch a run through:

```

***      Array Copying Menu      ***
-----
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  ❺ = Initialize
  ❻ = Clear Tried List
  ❼ = Add to Try List
  ❽ = Exit
Your Selection?

```

```

1
Interested-----Tried-----Not going there!-----
0 {EMPTY}          {EMPTY}          {EMPTY}
1 {EMPTY}          {EMPTY}          {EMPTY}
2 {EMPTY}          {EMPTY}          {EMPTY}
3 {EMPTY}          {EMPTY}          {EMPTY}
4 {EMPTY}          {EMPTY}          {EMPTY}

```

5	{EMPTY}	{EMPTY}	{EMPTY}
6	{EMPTY}	{EMPTY}	{EMPTY}
7	{EMPTY}	{EMPTY}	{EMPTY}
8	{EMPTY}	{EMPTY}	{EMPTY}
9	{EMPTY}	{EMPTY}	{EMPTY}
10	{EMPTY}	{EMPTY}	{EMPTY}
11	{EMPTY}	{EMPTY}	{EMPTY}
12	{EMPTY}	{EMPTY}	{EMPTY}
13	{EMPTY}	{EMPTY}	{EMPTY}
14	{EMPTY}	{EMPTY}	{EMPTY}

*** Array Copying Menu ***		
①	=	Display Lists
②	=	Move from First List to 2nd
③	=	Move from First List to 3rd
④	=	Consolidate First List
⑤	=	Initialize
⑥	=	Clear Tried List
⑦	=	Add to Try List
⑧	=	Exit
Your Selection?		

5

*** Array Copying Menu ***		
①	=	Display Lists
②	=	Move from First List to 2nd
③	=	Move from First List to 3rd
④	=	Consolidate First List
⑤	=	Initialize
⑥	=	Clear Tried List
⑦	=	Add to Try List
⑧	=	Exit
Your Selection?		

```

1 Interested-----Tried-----Not going there!-----
0 Fish Eyes           Rice and Beans      {EMPTY}
1 Frog Legs           Liver              {EMPTY}
2 Alligator           Paella            {EMPTY}
3 Sushi               Chicken           {EMPTY}
4 Buffalo             Pizza             {EMPTY}
5 Cow Tongue          {EMPTY}           {EMPTY}
6 Shark               {EMPTY}           {EMPTY}
7 Scrapple            {EMPTY}           {EMPTY}
8 Cheese Steak        {EMPTY}           {EMPTY}
9 Seaweed             {EMPTY}           {EMPTY}
10 Vegetarian Korma   {EMPTY}           {EMPTY}
11 Deep Fried Oreo    {EMPTY}           {EMPTY}
12 ChickBacRanch Pizza {EMPTY}           {EMPTY}
13 Caviar              {EMPTY}           {EMPTY}
14 {EMPTY}             {EMPTY}           {EMPTY}

```

***	Array Copying Menu	***
❶ = Display Lists ❷ = Move from First List to 2nd ❸ = Move from First List to 3rd ❹ = Consolidate First List ❺ = Initialize ❻ = Clear Tried List ❼ = Add to Try List ❽ = Exit		
Your Selection?		

```

2 Starting with which item?
1 Ending with which item?
5 Copying...
DONE

```

***	Array Copying Menu	***
❶ = Display Lists ❷ = Move from First List to 2nd ❸ = Move from First List to 3rd		

- ④ = Consolidate First List
- ⑤ = Initialize
- ⑥ = Clear Tried List
- ⑦ = Add to Try List
- ⑧ = Exit

Your Selection?

1

	Interested-----	Tried-----	Not going there!-----
0	Fish Eyes	Rice and Beans	{EMPTY}
1	{EMPTY}	Liver	{EMPTY}
2	{EMPTY}	Paella	{EMPTY}
3	{EMPTY}	Chicken	{EMPTY}
4	{EMPTY}	Pizza	{EMPTY}
5	{EMPTY}	Frog Legs	{EMPTY}
6	Shark	Alligator	{EMPTY}
7	Scrapple	Sushi	{EMPTY}
8	Cheese Steak	Buffalo	{EMPTY}
9	Seaweed	Cow Tongue	{EMPTY}
10	Vegetarian Korma	{EMPTY}	{EMPTY}
11	Deep Fried Oreos	{EMPTY}	{EMPTY}
12	ChickBacRanch Pizza	{EMPTY}	{EMPTY}
13	Caviar	{EMPTY}	{EMPTY}
14	{EMPTY}	{EMPTY}	{EMPTY}

*** Array Copying Menu ***

- ① = Display Lists
- ② = Move from First List to 2nd
- ③ = Move from First List to 3rd
- ④ = Consolidate First List
- ⑤ = Initialize
- ⑥ = Clear Tried List
- ⑦ = Add to Try List
- ⑧ = Exit

Your Selection?

3

Starting with which item?

13

Ending with which item?

13

Copying...

DONE

```
***      Array Copying Menu      ***
-----
  ① = Display Lists
  ② = Move from First List to 2nd
  ③ = Move from First List to 3rd
  ④ = Consolidate First List
  ⑤ = Initialize
  ⑥ = Clear Tried List
  ⑦ = Add to Try List
  ⑧ = Exit
Your Selection?
```

```
1
Interested-----Tried-----Not going there!-----
0  Fish Eyes           Rice and Beans       Caviar
1  {EMPTY}            Liver                {EMPTY}
2  {EMPTY}            Paella               {EMPTY}
3  {EMPTY}            Chicken              {EMPTY}
4  {EMPTY}            Pizza                {EMPTY}
5  {EMPTY}            Frog Legs            {EMPTY}
6  Shark              Alligator            {EMPTY}
7  Scrapple           Sushi                {EMPTY}
8  Cheese Steak       Buffalo              {EMPTY}
9  Seaweed            Cow Tongue           {EMPTY}
10 Vegetarian Korma   {EMPTY}              {EMPTY}
11 Deep Fried Oreo   {EMPTY}              {EMPTY}
12 ChickBacRanch Pizza {EMPTY}              {EMPTY}
13 {EMPTY}            {EMPTY}              {EMPTY}
14 {EMPTY}            {EMPTY}              {EMPTY}
```

```
***      Array Copying Menu      ***
-----
  ① = Display Lists
  ② = Move from First List to 2nd
  ③ = Move from First List to 3rd
  ④ = Consolidate First List
  ⑤ = Initialize
  ⑥ = Clear Tried List
  ⑦ = Add to Try List
  ⑧ = Exit
Your Selection?
```

```

3
Starting with which item?
6
Ending with which item?
7
Copying...
DONE

```

```

***      Array Copying Menu      ***
-----
  ❶ = Display Lists
  ❷ = Move from First List to 2nd
  ❸ = Move from First List to 3rd
  ❹ = Consolidate First List
  ❺ = Initialize
  ❻ = Clear Tried List
  ❼ = Add to Try List
  ❽ = Exit
Your Selection?

```

```

1
Interested-----Tried-----Not going there!-----
0  Fish Eyes           Rice and Beans       Caviar
1  {EMPTY}             Liver                Shark
2  {EMPTY}             Paella               Scrapple
3  {EMPTY}             Chicken              {EMPTY}
4  {EMPTY}             Pizza                {EMPTY}
5  {EMPTY}             Frog Legs            {EMPTY}
6  {EMPTY}             Alligator            {EMPTY}
7  {EMPTY}             Sushi                {EMPTY}
8  Cheese Steak       Buffalo              {EMPTY}
9  Seaweed            Cow Tongue           {EMPTY}
10 Vegetarian Korma   {EMPTY}              {EMPTY}
11 Deep Fried Oreos  {EMPTY}              {EMPTY}
12 ChickBacRanch Pizza {EMPTY}              {EMPTY}
13 {EMPTY}             {EMPTY}              {EMPTY}
14 {EMPTY}             {EMPTY}              {EMPTY}

```

```

***      Array Copying Menu      ***
-----
  ❶ = Display Lists
  ❷ = Move from First List to 2nd

```

```

    ③ = Move from First List to 3rd
    ④ = Consolidate First List
    ⑤ = Initialize
    ⑥ = Clear Tried List
    ⑦ = Add to Try List
    ⑧ = Exit
Your Selection?

```

4

```

***      Array Copying Menu      ***
-----
    ① = Display Lists
    ② = Move from First List to 2nd
    ③ = Move from First List to 3rd
    ④ = Consolidate First List
    ⑤ = Initialize
    ⑥ = Clear Tried List
    ⑦ = Add to Try List
    ⑧ = Exit
Your Selection?

```

1

	Interested-----	Tried-----	Not going there!-----
0	Fish Eyes	Rice and Beans	Caviar
1	Cheese Steak	Liver	Shark
2	Seaweed	Paella	Scrapple
3	Vegetarian Korma	Chicken	{EMPTY}
4	Deep Fried Oreos	Pizza	{EMPTY}
5	ChickBacRanch Pizza	Frog Legs	{EMPTY}
6	{EMPTY}	Alligator	{EMPTY}
7	{EMPTY}	Sushi	{EMPTY}
8	{EMPTY}	Buffalo	{EMPTY}
9	{EMPTY}	Cow Tongue	{EMPTY}
10	{EMPTY}	{EMPTY}	{EMPTY}
11	{EMPTY}	{EMPTY}	{EMPTY}
12	{EMPTY}	{EMPTY}	{EMPTY}
13	{EMPTY}	{EMPTY}	{EMPTY}
14	{EMPTY}	{EMPTY}	{EMPTY}

```

***      Array Copying Menu      ***
-----
    ① = Display Lists

```


- ② = Move from First List to 2nd
- ③ = Move from First List to 3rd
- ④ = Consolidate First List
- ⑤ = Initialize
- ⑥ = Clear Tried List
- ⑦ = Add to Try List
- ⑧ = Exit

Your Selection?

7

Please consolidate first

OK, what food to add

Fried Crickets

*** Array Copying Menu ***

- ① = Display Lists
- ② = Move from First List to 2nd
- ③ = Move from First List to 3rd
- ④ = Consolidate First List
- ⑤ = Initialize
- ⑥ = Clear Tried List
- ⑦ = Add to Try List
- ⑧ = Exit

Your Selection?

1

	Interested-----	Tried-----	Not going there!-----
0	Fish Eyes	Rice and Beans	Caviar
1	Cheese Steak	Liver	Shark
2	Seaweed	Paella	Scrapple
3	Vegetarian Korma	Chicken	{EMPTY}
4	Deep Fried Oreos	Pizza	{EMPTY}
5	ChickBacRanch Pizza	Frog Legs	{EMPTY}
6	Fried Crickets	Alligator	{EMPTY}
7	{EMPTY}	Sushi	{EMPTY}
8	{EMPTY}	Buffalo	{EMPTY}
9	{EMPTY}	Cow Tongue	{EMPTY}
10	{EMPTY}	{EMPTY}	{EMPTY}
11	{EMPTY}	{EMPTY}	{EMPTY}
12	{EMPTY}	{EMPTY}	{EMPTY}
13	{EMPTY}	{EMPTY}	{EMPTY}
14	{EMPTY}	{EMPTY}	{EMPTY}

*** Array Copying Menu ***

- ① = Display Lists
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- ⑤ = Initialize
- ⑥ = Clear Tried List
- ⑦ = Add to Try List
- ⑧ = Exit

Your Selection?

6

*** Array Copying Menu ***

- ① = Display Lists
- ② = Move from First List to 2nd
- ③ = Move from First List to 3rd
- ④ = Consolidate First List
- ⑤ = Initialize
- ⑥ = Clear Tried List
- ⑦ = Add to Try List
- ⑧ = Exit

Your Selection?

```

1 Interested-----Tried-----Not going there!-----
0 Fish Eyes          {EMPTY}          Caviar
1 Cheese Steak       {EMPTY}          Shark
2 Seaweed            {EMPTY}          Scrapple
3 Vegetarian Korma  {EMPTY}          {EMPTY}
4 Deep Fried Oreos  {EMPTY}          {EMPTY}
5 ChickBacRanch Pizza {EMPTY}          {EMPTY}
6 Fried Crickets    {EMPTY}          {EMPTY}
7 {EMPTY}            {EMPTY}          {EMPTY}
8 {EMPTY}            {EMPTY}          {EMPTY}
9 {EMPTY}            {EMPTY}          {EMPTY}
10 {EMPTY}           {EMPTY}          {EMPTY}
11 {EMPTY}           {EMPTY}          {EMPTY}
12 {EMPTY}           {EMPTY}          {EMPTY}
13 {EMPTY}           {EMPTY}          {EMPTY}
14 {EMPTY}           {EMPTY}          {EMPTY}

```

*** Array Copying Menu ***	
①	= Display Lists
②	= Move from First List to 2nd
③	= Move from First List to 3rd
④	= Consolidate First List
⑤	= Initialize
⑥	= Clear Tried List
⑦	= Add to Try List
⑧	= Exit
Your Selection?	

2
 Starting with which item?
 3
 Ending with which item?
 5
 Copying...
 DONE

*** Array Copying Menu ***
<p style="text-align: center;"> ❶ = Display Lists ❷ = Move from First List to 2nd ❸ = Move from First List to 3rd ❹ = Consolidate First List ❺ = Initialize ❻ = Clear Tried List ❼ = Add to Try List ❽ = Exit </p> <p>Your Selection?</p>

1

	Interested-----	Tried-----	Not going there!-----
0	Fish Eyes	Vegetarian Korma	Caviar
1	Cheese Steak	Deep Fried Oreos	Shark
2	Seaweed	ChickBacRanch Pizza	Scrapple
3	{EMPTY}	{EMPTY}	{EMPTY}
4	{EMPTY}	{EMPTY}	{EMPTY}
5	{EMPTY}	{EMPTY}	{EMPTY}
6	Fried Crickets	{EMPTY}	{EMPTY}
7	{EMPTY}	{EMPTY}	{EMPTY}
8	{EMPTY}	{EMPTY}	{EMPTY}
9	{EMPTY}	{EMPTY}	{EMPTY}
10	{EMPTY}	{EMPTY}	{EMPTY}
11	{EMPTY}	{EMPTY}	{EMPTY}
12	{EMPTY}	{EMPTY}	{EMPTY}
13	{EMPTY}	{EMPTY}	{EMPTY}
14	{EMPTY}	{EMPTY}	{EMPTY}

*** Array Copying Menu ***
<p style="text-align: center;"> ❶ = Display Lists ❷ = Move from First List to 2nd ❸ = Move from First List to 3rd </p>

```

    ④ = Consolidate First List
    ⑤ = Initialize
    ⑥ = Clear Tried List
    ⑦ = Add to Try List
    ⑧ = Exit
Your Selection?

```

7
Please consolidate first
OK, what food to add
Chix Waffles

```

***      Array Copying Menu      ***

    ① = Display Lists
    ② = Move from First List to 2nd
    ③ = Move from First List to 3rd
    ④ = Consolidate First List
    ⑤ = Initialize
    ⑥ = Clear Tried List
    ⑦ = Add to Try List
    ⑧ = Exit
Your Selection?

```

```

1
Interested-----Tried-----Not going there!-----
0  Fish Eyes          Vegetarian Korma   Caviar
1  Cheese Steak      Deep Fried Oreo   Shark
2  Seaweed           ChickBacRanch Pizza Scrapple
3  Chix Waffles      {EMPTY}           {EMPTY}
4  {EMPTY}           {EMPTY}           {EMPTY}
5  {EMPTY}           {EMPTY}           {EMPTY}
6  Fried Crickets   {EMPTY}           {EMPTY}
7  {EMPTY}           {EMPTY}           {EMPTY}
8  {EMPTY}           {EMPTY}           {EMPTY}
9  {EMPTY}           {EMPTY}           {EMPTY}
10 {EMPTY}           {EMPTY}           {EMPTY}
11 {EMPTY}           {EMPTY}           {EMPTY}
12 {EMPTY}           {EMPTY}           {EMPTY}
13 {EMPTY}           {EMPTY}           {EMPTY}
14 {EMPTY}           {EMPTY}           {EMPTY}

```

```

***      Array Copying Menu      ***

```

```

    ① = Display Lists
    ② = Move from First List to 2nd
    ③ = Move from First List to 3rd
    ④ = Consolidate First List
    ⑤ = Initialize
    ⑥ = Clear Tried List
    ⑦ = Add to Try List
    ⑧ = Exit
Your Selection?

```

4

```

***      Array Copying Menu      ***

```

```

    ① = Display Lists
    ② = Move from First List to 2nd
    ③ = Move from First List to 3rd
    ④ = Consolidate First List
    ⑤ = Initialize
    ⑥ = Clear Tried List
    ⑦ = Add to Try List
    ⑧ = Exit
Your Selection?

```

5

```

***      Array Copying Menu      ***

```

```

    ① = Display Lists
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    ③ = Move from First List to 3rd
    ④ = Consolidate First List
    ⑤ = Initialize
    ⑥ = Clear Tried List
    ⑦ = Add to Try List
    ⑧ = Exit
Your Selection?

```

1

	Interested-----	Tried-----	Not going there!-----
0	Fish Eyes	Rice and Beans	{EMPTY}
1	Frog Legs	Liver	{EMPTY}
2	Alligator	Paella	{EMPTY}

3	Sushi	Chicken	{EMPTY}
4	Buffalo	Pizza	{EMPTY}
5	Cow Tongue	{EMPTY}	{EMPTY}
6	Shark	{EMPTY}	{EMPTY}
7	Scrapple	{EMPTY}	{EMPTY}
8	Cheese Steak	{EMPTY}	{EMPTY}
9	Seaweed	{EMPTY}	{EMPTY}
10	Vegetarian Korma	{EMPTY}	{EMPTY}
11	Deep Fried Oreos	{EMPTY}	{EMPTY}
12	ChickBacRanch Pizza	{EMPTY}	{EMPTY}
13	Caviar	{EMPTY}	{EMPTY}
14	{EMPTY}	{EMPTY}	{EMPTY}

*** Array Copying Menu ***

- ① = Display Lists
- ② = Move from First List to 2nd
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- ④ = Consolidate First List
- ⑤ = Initialize
- ⑥ = Clear Tried List
- ⑦ = Add to Try List
- ⑧ = Exit

Your Selection?

8

Project 1 Name

Array Copy Practice

Class 1 Name

ArrayPractice_Copying.java



RUBRIC



Copies from 1 st array correct range	15
Adds to correct spot	10
Consolidate	20
Clear Tried List	3
Add to try List	2
TOTAL	50

