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## initSpace()

Fail

```
11 void initSpace(cardCellContent** corner, int howManyCols)
12 {
13     for(int row = 0; row < howManyCols; row++)
14     {
15         for(int col = 0; col < howManyCols; col++)
16         {
17             cardCellContent* x = (cardCellContent*) malloc(sizeof(cardCellContent)); //reserve a cardCell on heap
18         }
19     }
20 }
21
```

Problems Tasks Console Properties

<terminated> (exit value: 0) HW2.exe [C/C++ Application] C:\Users\jhsu0\eclipse-workspace\HW2\Debug\HW2.exe (9/7/21, 9:58 PM)

!!!Hello World, let's do HW2!!!  
starting testMakeLList  
test make LList did pass.  
testEnqueue did pass.  
testprintHistory did pass.  
testBoardInit did not pass  
Not all tests passed; better luck next time

Pass

```
11 void initSpace(cardCellContent** corner, int howManyCols)
12 {
13     for(int row = 0; row < howManyCols; row++)
14     {
15         for(int col = 0; col < howManyCols; col++)
16         {
17             cardCellContent* x = (cardCellContent*) malloc(sizeof(cardCellContent)); //reserve a cardCell on heap
18             x->row = 0;
19             x->col = 0;
20             x->matched = false;
21             //call rand
22             x->letter = 'A' + rand() % 26;
23             x->digit = '0' + rand() % 10;
24             cardCellContent** thatCellP = corner + row*howManyCols + col;
25             *thatCellP = x; //put its address into bingo card space
26         }
27     }
28 }
29
```

Problems Tasks Console Properties

<terminated> (exit value: 0) HW2.exe [C/C++ Application] C:\Users\jhsu0\eclipse-workspace\HW2\Debug\HW2.exe (9/7/21, 10:10 PM)

!!!Hello World, let's do HW2!!!  
starting testMakeLList  
test make LList did pass.  
testEnqueue did pass.  
testprintHistory did pass.  
testBoardInit did pass.  
The tests all passed.  
Found 2 arguments.  
Number of calls is 600  
after reading arguments

## savePayload()

Fail

```
49 }
50 void savePayload(LLNode* lp, Payload* mp)
51 {
52 // //if the list is empty, then make payP be mp
53 // //else traverse the list,
54 // //make a new list element
55 // //put mp in that
56 // //attach the new list element to the existing list
57 // if(isEmpty(lp))
58 // {
59 //     lp->payP = mp;
60 // }
61 // else
62 // {
63 //     LLNode* temp = lp;
64 //     while(temp->next)
65 //     {
66 //         temp=(LLNode*)temp->next;
67 //     }
68 //     //now temp points to the last element
69 //
70 //     //make a new element, attach mp to it, wire up the new element
71 //     LLNode* newList = makeEmptyLinkedList();
72 //     newList->payP = mp;
73 //     temp->next = (struct LLNode*)newList;
74 //     newList->prev = (struct LLNode*) temp;
75 // }
76 }
```

Problems Tasks Console Properties Debug

SystemsHW2 Debug [C/C++ Application]

!!!Hello World, let's do HW2!!!

starting testReadFile

starting testMakeLList

test make Llist did not pass.

testEnqueue did not pass.

Pass

```
50 void savePayload(LLNode* lp, Payload* mp)
51 {
52     //if the list is empty, then make payP be mp
53     //else traverse the list,
54     //make a new list element
55     //put mp in that
56     //attach the new list element to the existing list
57     if(isEmpty(lp))
58     {
59         lp->payP = mp;
60     }
61     else
62     {
63         LLNode* temp = lp;
64         while(temp->next)
65         {
66             temp=(LLNode*)temp->next;
67         }
68         //now temp points to the last element
69
70         //make a new element, attach mp to it, wire up the new element
71         LLNode* newList = makeEmptyLinkedList();
72         newList->payP = mp;
73         temp->next = (struct LLNode*)newList;
74         newList->prev = (struct LLNode*) temp;
75     }
76 }
```

Problems Tasks Console Properties Debug

SystemsHW2 Debug [C/C++ Application]

!!!Hello World, let's do HW2!!!

starting testReadFile

starting testMakeLList

test make LList did pass.

testEnqueue did pass.

## isWin()

Fail

```
49 bool isWin(cardCellContent** corner, int howManyCols)
50 {
51     bool win = false;
52
53
54
55
56     return win;
57 }
58
59
60
61
62
63
```

Problems Tasks Console Properties

```
<terminated> (exit value: 0) HW2.exe [C/C++ Application] C:\Users\jhsu0\eclipse-workspace\HW2\Debug\HW2
!!!Hello World, let's do HW2!!!
starting testMakeLList
test make LList did pass.
testEnqueue did pass.
testBoardInit did pass.
testIsWin did not pass
Not all tests passed; better luck next time
```

## Pass

```
40
49 bool isWin(cardCellContent** corner, int howManyCols)
50 {
51     bool win = false;
52
53     //ROW
54     for(int row = 0; row < howManyCols; row++)
55     {
56         int count=0;
57         for(int col = 0; col < howManyCols; col++)
58         {
59             cardCellContent** thatCellP = corner + row*howManyCols + col;
60             bool matching = (*thatCellP)->matched;
61             if(matching){
62                 count++;
63             }
64             if(count==5){
65                 win=true;
66             }
67         }
68     }
69
70     //COLS
71     for(int col = 0; col < howManyCols; col++)
72     {
73         int count=0;
74         for(int row = 0; row < howManyCols; row=row+5)
75         {
76             cardCellContent** thatCellP = corner + row*howManyCols + col;
77             bool matching = (*thatCellP)->matched;
78             if(matching){
79                 count++;
80             }
81             if(count==5){
82                 win=true;
83             }
84         }
85     }
86
87
88
89     //TOP LEFT BOTTOM RIGHT
90     for(int row = 0; row < howManyCols; row++)
91     {
92         int count=0;
93         int col=row;
94         cardCellContent** thatCellP = corner + row*howManyCols + col;
95         bool matching = (*thatCellP)->matched;
96         if(matching){
97             count++;
98         }
99         if(count==5){
100             win=true;
101         }
102     }
103 }
```

Problems Tasks Console Properties

```
<terminated> (exit value: 0) HW2.exe [C/C++ Application] C:\Users\jhsu0\workspace\HW2\Debug\HW2.exe (9/7/21, 11:
|!!!Hello World, let's do HW2!!!
starting testMakeLList
test make LList did pass.
testEnqueue did pass.
testBoardInit did pass.
testIsWin did pass
The tests all passed.
Found 2 arguments.
Number of calls is 600
after reading arguments
```

## displaySpace()

Fail

```
33 void displaySpace(cardCellContent** corner, int howManyCols)
34 {
35 // for(int row = 0; row < howManyCols; row++)
36 // {
37 //     for(int col = 0; col < howManyCols; col++)
38 //     {
39 //         cardCellContent** thatCellP = corner + row*howManyCols + col;
40 //         char let = (*thatCellP)->letter;
41 //         char digit = (*thatCellP)->digit;
42 //         printf("|%c%c", let, digit);
43 //     }
44 //     printf("\n");
45 // }
46 }
47
48
49
50
```

Problems Tasks Console Properties Debug

<terminated> (exit value: 0) SystemsHW2 Debug [C/C++ Application] C:\Users\jake1\OneDrive\Desktop\Algorithms 2223\SystemHW2\Debug\SystemHW2.exe (9/1

test make LLlist did pass.

testEnqueue did pass.

History should be: C0 C1 C2 C3 C4

Calls = 5

Printing history

Combo 1 is: A0.

Combo 2 is: A1.

Combo 3 is: A2.

Combo 4 is: A3.

Combo 5, the winning combo, is: A4.

testprintHistory did pass.

testInitializeBoard did pass

Does it look right? (y/n):n

testDisplaySpace did not pass

Pass

```
32
33 void displaySpace(cardCellContent** corner, int howManyCols)
34 {
35     for(int row = 0; row < howManyCols; row++)
36     {
37         for(int col = 0; col < howManyCols; col++)
38         {
39             cardCellContent** thatCellP = corner + row*howManyCols + col;
40             char let = (*thatCellP)->letter;
41             char digit = (*thatCellP)->digit;
42             printf("|%c%c", let, digit);
43         }
44         printf("\n");
45     }
46 }
47
48
49
50
```

Problems Tasks Console Properties Debug

<terminated> (exit value: 0) SystemsHW2 Debug [C/C++ Application] C:\Users\jake1\OneDrive\Desktop\Algorithms 2223\SystemHW2\Debug\SystemHW2.e

Combo 1 is: A0.

Combo 2 is: A1.

Combo 3 is: A2.

Combo 4 is: A3.

Combo 5, the winning combo, is: A4.

testprintHistory did pass.

testInitializeBoard did pass

A0	A0	A0	A0	A0
A0	A0	A0	A0	A0
A0	A0	A0	A0	A0
A0	A0	A0	A0	A0
A0	A0	A0	A0	A0

Does it look right? (y/n):y

testDisplaySpace did pass

## printCalls()

Fail

```
194 void printCalls(LLNode* hp)
195 {
196     puts("\nPrinting history");
197     // if(hp->payP == (Payload*)0)
198     // {
199     //     puts("Empty list");
200     // }
201     // else
202     // {
203     //     //traverse the list, printing as we go
204     //     int i = 1;
205     //     LLNode* temp = hp;
206     //     while(temp->next)
207     //     {
208     //         printf("Combo %d is: %c%c.\n", i, temp->payP->letter, temp->payP->num);
209     //         temp=(LLNode*)temp->next;
210     //         i++;
211     //     }
212     //     printf("Combo %d, the winning combo, is: %c%c.\n", i, temp->payP->letter, temp->payP->num);
213     // }
214 }
215
216
```

Problems Tasks Console Properties Debug

SystemsHW2 Debug [C/C++ Application]

```
starting testReadFile
starting testMakeLList
test make LList did pass.
testEnqueue did pass.
Do the calls look right? (y/n):n
testprintCalls did not pass
```

//

MORE BELOW



## Pass

```
194 void printCalls(LLNode* hp)
195 {
196     puts("\nPrinting history");
197     if(hp->payP == (Payload*)0)
198     {
199         puts("Empty list");
200     }
201     else
202     {
203         //traverse the list, printing as we go
204         int i = 1;
205         LLNode* temp = hp;
206         while(temp->next)
207         {
208             printf("Combo %d is: %c%c.\n", i, temp->payP->letter, temp->payP->num);
209             temp=(LLNode*)temp->next;
210             i++;
211         }
212         printf("Combo %d, the winning combo, is: %c%c.\n", i, temp->payP->letter, temp->payP->num);
213     }
214 }
215
216
217
218
219
220
```

Problems Tasks Console Properties Debug

SystemstHW2 Debug [C/C++ Application]

test make LList did pass.

testEnqueue did pass.

Printing history

Combo 1 is: A0.

Combo 2 is: A1.

Combo 3 is: A2.

Combo 4 is: A3.

Combo 5, the winning combo, is: A4.

Do the calls look right? (y/n):y

testprintCalls did pass