

## 1) Plant Assign

```
3 ?- plantassign(4, L).
L = [daisies, daisies, daisies, daisies] ;
L = [daisies, daisies, daisies, roses] ;
L = [daisies, daisies, daisies, petunias] ;
L = [daisies, daisies, daisies, daffodils] ;
L = [daisies, daisies, daisies, begonias] ;
L = [daisies, daisies, daisies, snapdragons] ;
L = [daisies, daisies, daisies, marigolds] ;
L = [daisies, daisies, daisies, gardenias] ;
L = [daisies, daisies, daisies, gladiolas] ;
L = [daisies, daisies, daisies, bird_of_paradise] ;
L = [daisies, daisies, daisies, lilies] ;
L = [daisies, daisies, daisies, azalea] ;
L = [daisies, daisies, daisies, buttercup] ;
L = [daisies, daisies, daisies, poppy] ;
L = [daisies, daisies, daisies, crocus] ;
L = [daisies, daisies, daisies, carnation] ;
L = [daisies, daisies, daisies, tulip] ;
L = [daisies, daisies, daisies, orchid] ;
L = [daisies, daisies, daisies, chrysanthemum] ;
L = [daisies, daisies, daisies, dahlia] ;
L = [daisies, daisies, daisies, geranium] ;
L = [daisies, daisies, daisies, lavender] ;
L = [daisies, daisies, daisies, iris] ;
L = [daisies, daisies, daisies, peonies] ;
L = [daisies, daisies, daisies, periwinkle] ;
L = [daisies, daisies, daisies, sunflower] ;
L = [daisies, daisies, daisies, violet] ;
L = [daisies, daisies, daisies, zinnia] ;
L = [daisies, daisies, roses, daisies] ;
L = [daisies, daisies, roses, roses] ;
L = [daisies, daisies, roses, petunias] ;
L = [daisies, daisies, roses, daffodils] ;
L = [daisies, daisies, roses, begonias] ;
L = [daisies, daisies, roses, snapdragons] ;
L = [daisies, daisies, roses, marigolds] ;
L = [daisies, daisies, roses, gardenias] ;
L = [daisies, daisies, roses, gladiolas] ;
L = [daisies, daisies, roses, bird_of_paradise] ;
L = [daisies, daisies, roses, lilies] ;
L = [daisies, daisies, roses, azalea] ;
L = [daisies, daisies, roses, buttercup] ;
L = [daisies, daisies, roses, poppy] ;
```

```

3 ?- plantassign(6, L).
L = [daisies, daisies, daisies, daisies, daisies, daisies] ;
L = [daisies, daisies, daisies, daisies, daisies, roses] ;
L = [daisies, daisies, daisies, daisies, daisies, petunias] ;
L = [daisies, daisies, daisies, daisies, daisies, daffodils] ;
L = [daisies, daisies, daisies, daisies, daisies, begonias] ;
L = [daisies, daisies, daisies, daisies, daisies, snapdragons] ;
L = [daisies, daisies, daisies, daisies, daisies, marigolds] ;
L = [daisies, daisies, daisies, daisies, daisies, gardenias] ;
L = [daisies, daisies, daisies, daisies, daisies, gladiolas] ;
L = [daisies, daisies, daisies, daisies, daisies, bird_of_paradise] ;
L = [daisies, daisies, daisies, daisies, daisies, lilies] ;
L = [daisies, daisies, daisies, daisies, daisies, azalea] ;
L = [daisies, daisies, daisies, daisies, daisies, buttercup] ;
L = [daisies, daisies, daisies, daisies, daisies, poppy] ;
L = [daisies, daisies, daisies, daisies, daisies, crocus] ;
L = [daisies, daisies, daisies, daisies, daisies, carnation] ;
L = [daisies, daisies, daisies, daisies, daisies, tulip] ;
L = [daisies, daisies, daisies, daisies, daisies, orchid] ;
L = [daisies, daisies, daisies, daisies, daisies, chrysanthemum] ;
L = [daisies, daisies, daisies, daisies, daisies, dahlia] ;
L = [daisies, daisies, daisies, daisies, daisies, geranium] ;
L = [daisies, daisies, daisies, daisies, daisies, lavender] ;
L = [daisies, daisies, daisies, daisies, daisies, iris] ;
L = [daisies, daisies, daisies, daisies, daisies, peonies] ;
L = [daisies, daisies, daisies, daisies, daisies, periwinkle] ;
L = [daisies, daisies, daisies, daisies, daisies, sunflower] ;
L = [daisies, daisies, daisies, daisies, daisies, violet] ;
L = [daisies, daisies, daisies, daisies, daisies, zinnia] ;
L = [daisies, daisies, daisies, daisies, roses, daisies] ;
L = [daisies, daisies, daisies, daisies, roses, roses] ;
L = [daisies, daisies, daisies, daisies, roses, petunias] ;
L = [daisies, daisies, daisies, daisies, roses, daffodils] ;
L = [daisies, daisies, daisies, daisies, roses, begonias] ;
L = [daisies, daisies, daisies, daisies, roses, snapdragons] ;
L = [daisies, daisies, daisies, daisies, roses, marigolds] ;
L = [daisies, daisies, daisies, daisies, roses, gardenias] ;
L = [daisies, daisies, daisies, daisies, roses, gladiolas] ;
L = [daisies, daisies, daisies, daisies, roses, bird_of_paradise] ;
L = [daisies, daisies, daisies, daisies, roses, lilies] ;
L = [daisies, daisies, daisies, daisies, roses, azalea] ;
L = [daisies, daisies, daisies, daisies, roses, buttercup] ;
L = [daisies, daisies, daisies, daisies, roses, poppy] ;

```

## 2) Unique Check

```

4 ?- uniquecheck([roses, carnation, sunflower, violet]).
true.

5 ?- uniquecheck([roses, roses, violet]).
false.

```

## 3) Color Check

```

4 ?- uniquecheck([roses, carnation, sunflower, violet]).
true.

5 ?- uniquecheck([roses, roses, violet]).
false.

6 ?- colorcheck([roses, carnation, marigolds, violet]).
true .

7 ?- colorcheck([roses, poppy, lilies]).
ERROR: Unknown procedure: ('.)/2
ERROR:   However, there are definitions for:
ERROR:   ('.)/3
false.

8 ?- colorcheck([roses, poppy, lilies]).
false.

```

#### 4) Size check

```

9 ?- sizecheck([lilies, roses, sunflower]).
true .

10 ?- sizecheck([lilies, sunflower]).
false.

```

#### 5) Wet Check

```

11 ?- wetcheck(4, [roses, carnation, dahlia, poppy]).
true.

12 ?- wetcheck(5, [carnation, azalea, dahlia, poppy, tulip]).
false.

```

#### 6) Write Garden

```

13 ?- writegarden([roses, carnation, dahlia, poppy]).
Garden plan:
1: roses (med, dry, red)
2: carnation (med, wet, white)
3: dahlia (med, wet, purple)
4: poppy (med, dry, red)
true.

14 ?- writegarden([buttercup, periwinkle, roses, sunflower]).
Garden plan:
1: buttercup (short, dry, yellow)
2: periwinkle (med, wet, purple)
3: roses (med, dry, red)
4: sunflower (tall, dry, yellow)
true.

```

#### 7) Garden Plan

```

15 ?- gardenplan(4, L).
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: snapdragons (tall, dry, red)
L = [roses, daisies, petunias, snapdragons] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: lilies (short, dry, white)
L = [roses, daisies, petunias, lilies] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: buttercup (short, dry, yellow)
L = [roses, daisies, petunias, buttercup] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: poppy (med, dry, red)
L = [roses, daisies, petunias, poppy] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: crocus (med, dry, orange)
L = [roses, daisies, petunias, crocus] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: geranium (short, dry, red)
L = [roses, daisies, petunias, geranium] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: lavender (short, dry, purple)
L = [roses, daisies, petunias, lavender] ;

```

```

16 ?- gardenplan(6, L).
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: daffodils (med, wet, yellow)
5: begonias (tall, wet, white)
6: snapdragons (tall, dry, red)
L = [roses, daisies, petunias, daffodils, begonias, snapdragons] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: daffodils (med, wet, yellow)
5: begonias (tall, wet, white)
6: azalea (med, dry, pink)
L = [roses, daisies, petunias, daffodils, begonias, azalea] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: daffodils (med, wet, yellow)
5: begonias (tall, wet, white)
6: poppy (med, dry, red)
L = [roses, daisies, petunias, daffodils, begonias, poppy] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: daffodils (med, wet, yellow)
5: begonias (tall, wet, white)
6: crocus (med, dry, orange)
L = [roses, daisies, petunias, daffodils, begonias, crocus] ;
Garden plan:
1: roses (med, dry, red)
2: daisies (med, wet, yellow)
3: petunias (med, wet, pink)
4: daffodils (med, wet, yellow)
5: begonias (tall, wet, white)
6: chrysanthemum (tall, dry, pink)
L = [roses, daisies, petunias, daffodils, begonias, chrysanthemum] ;

```

Extra Credit

1) Plant Assign

```
PS C:\Users\unkno\OneDrive\Desktop\Random_Sht\Homework> swipl -s gardenextractcredit.pl
```

```
1 ?- plantassign(2,3,L).  
L = [daisies, daisies, daisies, daisies, daisies, daisies] ;  
L = [daisies, daisies, daisies, daisies, daisies, roses] ;  
L = [daisies, daisies, daisies, daisies, daisies, petunias] ;  
L = [daisies, daisies, daisies, daisies, daisies, daffodils] ;  
L = [daisies, daisies, daisies, daisies, daisies, begonias] ;  
L = [daisies, daisies, daisies, daisies, daisies, snapdragons] ;  
L = [daisies, daisies, daisies, daisies, daisies, marigolds] ;  
L = [daisies, daisies, daisies, daisies, daisies, gardenias] ;  
L = [daisies, daisies, daisies, daisies, daisies, gladiolas] ;  
L = [daisies, daisies, daisies, daisies, daisies, bird_of_paradise] ;  
L = [daisies, daisies, daisies, daisies, daisies, lilies] ;  
L = [daisies, daisies, daisies, daisies, daisies, azalea] ;  
L = [daisies, daisies, daisies, daisies, daisies, buttercup] ;  
L = [daisies, daisies, daisies, daisies, daisies, poppy] ;  
L = [daisies, daisies, daisies, daisies, daisies, crocus] ;  
L = [daisies, daisies, daisies, daisies, daisies, carnation] ;  
L = [daisies, daisies, daisies, daisies, daisies, tulip] ;  
L = [daisies, daisies, daisies, daisies, daisies, orchid] ;  
L = [daisies, daisies, daisies, daisies, daisies, chrysanthemum] ;  
L = [daisies, daisies, daisies, daisies, daisies, dahlia] ;  
L = [daisies, daisies, daisies, daisies, daisies, geranium] ;  
L = [daisies, daisies, daisies, daisies, daisies, lavender] ;  
L = [daisies, daisies, daisies, daisies, daisies, iris] ;  
L = [daisies, daisies, daisies, daisies, daisies, peonies] ;  
L = [daisies, daisies, daisies, daisies, daisies, periwinkle] ;  
L = [daisies, daisies, daisies, daisies, daisies, sunflower] ;  
L = [daisies, daisies, daisies, daisies, daisies, violet] ;  
L = [daisies, daisies, daisies, daisies, daisies, zinnia] ;  
L = [daisies, daisies, daisies, daisies, roses, daisies] ;  
L = [daisies, daisies, daisies, daisies, roses, roses] ;  
L = [daisies, daisies, daisies, daisies, roses, petunias] ;  
L = [daisies, daisies, daisies, daisies, roses, daffodils] ;  
L = [daisies, daisies, daisies, daisies, roses, begonias] ;  
L = [daisies, daisies, daisies, daisies, roses, snapdragons] ;  
L = [daisies, daisies, daisies, daisies, roses, marigolds] ;  
L = [daisies, daisies, daisies, daisies, roses, gardenias] ;  
L = [daisies, daisies, daisies, daisies, roses, gladiolas] ;  
L = [daisies, daisies, daisies, daisies, roses, bird_of_paradise] ;  
L = [daisies, daisies, daisies, daisies, roses, lilies] ;  
L = [daisies, daisies, daisies, daisies, roses, azalea] ;  
L = [daisies, daisies, daisies, daisies, roses, buttercup] ;  
L = [daisies, daisies, daisies, daisies, roses, poppy] ;
```

to Discord

```
PS C:\Users\unkind\OneDrive\Desktop\random\shit\homework> swipl -s gardenextractcredit.pl
2 ?- plantassign(3,3,L).
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, petunias] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, daffodils] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, begonias] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, snapdragons] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, marigolds] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, gardenias] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, gladiolas] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, bird_of_paradise] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, lilies] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, azalea] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, buttercup] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, poppy] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, crocus] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, carnation] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, tulip] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, orchid] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, chrysanthemum] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, dahlia] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, geranium] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, lavender] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, iris] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, peonies] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, periwinkle] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, sunflower] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, violet] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, daisies, zinnia] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, daisies] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, roses] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, petunias] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, daffodils] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, begonias] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, snapdragons] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, marigolds] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, gardenias] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, gladiolas] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, bird_of_paradise] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, lilies] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, azalea] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, buttercup] ;
L = [daisies, daisies, daisies, daisies, daisies, daisies, daisies, roses, poppy] ;
```

## 2) Unique Check

```
3 ?- uniquecheck([roses,carnation,sunflower,violet,azalea,orchid]).
true.

4 ?- uniquecheck([roses,roses,orchid]).
false.
```

## 3) Color Check

```
5 ?- colorcheck(2,3,[roses,carnation,gardenias,lilies,geranium,orchid]).
true.

6 ?- colorcheck(2,3,[roses,poppy,lilies,geranium,geranium,orchid]).
false.
```

## 4) Size Check

```
7 ?- sizecheck(2,3,[lilies,roses,begonias,buttercup,dahlia,gladiolas]).
true.

8 ?- sizecheck(2,3,[lilies,gladiolas,lilies,gladiolas,lilies,gladiolas]).
false.
```

## 5) Wet Check

```
9 ?- wetcheck(3,3,[roses,lilies,azalea,buttercup,carnation,geranium,lavender,iris,sunflower]).
true.

10 ?- wetcheck(3,3,[roses,lilies,azalea,buttercup,roses,geranium,lavender,iris,sunflower]).
false.
```

## 6) Write Garden

```
11 ?- writegarden(3,3,[roses,lilies,azalea,buttercup,carnation,geranium,lavender,iris,sunflower]).
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink)
(2,1): buttercup (short, dry, yellow) (2,2): carnation (med, wet, white) (2,3): geranium (short, dry, red)
(3,1): lavender (short, dry, purple) (3,2): iris (tall, dry, purple) (3,3): sunflower (tall, dry, yellow)
true.

12 ?- writegarden(2,4,[roses,carnation,dahlia,poppy,azalea,orchid,tulip,gladiolas]).
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): carnation (med, wet, white) (1,3): dahlia (med, wet, purple) (1,4): poppy (med, dry, red)
(2,1): azalea (med, dry, pink) (2,2): orchid (short, wet, white) (2,3): tulip (short, wet, red) (2,4): gladiolas (tall, wet, red)
true.
```

## 7) Garden Plan

```
1 ?- gardenplan(2,4,L).
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): crocus (med, dry, orange) (2,4): chrysanthemum (tall, dry, pink)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, crocus, chrysanthemum] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): crocus (med, dry, orange) (2,4): iris (tall, dry, purple)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, crocus, iris] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): crocus (med, dry, orange) (2,4): sunflower (tall, dry, yellow)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, crocus, sunflower] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): lavender (short, dry, purple) (2,4): crocus (med, dry, orange)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, lavender, crocus] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): iris (tall, dry, purple) (2,4): crocus (med, dry, orange)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, iris, crocus] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): iris (tall, dry, purple) (2,4): chrysanthemum (tall, dry, pink)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, iris, chrysanthemum] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): iris (tall, dry, purple) (2,4): sunflower (tall, dry, yellow)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, iris, sunflower] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): sunflower (tall, dry, yellow) (2,4): crocus (med, dry, orange)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, sunflower, crocus] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): sunflower (tall, dry, yellow) (2,4): chrysanthemum (tall, dry, pink)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, sunflower, chrysanthemum] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink) (1,4): snapdragons (tall, dry, red)
(2,1): buttercup (short, dry, yellow) (2,2): poppy (med, dry, red) (2,3): sunflower (tall, dry, yellow) (2,4): iris (tall, dry, purple)
L = [roses, lilies, azalea, snapdragons, buttercup, poppy, sunflower, iris] ;
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3 ?- gardenplan(3,3,L).
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink)
(2,1): buttercup (short, dry, yellow) (2,2): petunias (med, wet, pink) (2,3): snapdragons (tall, dry, red)
(3,1): poppy (med, dry, red) (3,2): crocus (med, dry, orange) (3,3): chrysanthemum (tall, dry, pink)
L = [roses, lilies, azalea, buttercup, petunias, snapdragons, poppy, crocus, chrysanthemum] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink)
(2,1): buttercup (short, dry, yellow) (2,2): petunias (med, wet, pink) (2,3): snapdragons (tall, dry, red)
(3,1): poppy (med, dry, red) (3,2): crocus (med, dry, orange) (3,3): iris (tall, dry, purple)
L = [roses, lilies, azalea, buttercup, petunias, snapdragons, poppy, crocus, iris] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink)
(2,1): buttercup (short, dry, yellow) (2,2): petunias (med, wet, pink) (2,3): snapdragons (tall, dry, red)
(3,1): poppy (med, dry, red) (3,2): crocus (med, dry, orange) (3,3): sunflower (tall, dry, yellow)
L = [roses, lilies, azalea, buttercup, petunias, snapdragons, poppy, crocus, sunflower] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink)
(2,1): buttercup (short, dry, yellow) (2,2): petunias (med, wet, pink) (2,3): snapdragons (tall, dry, red)
(3,1): poppy (med, dry, red) (3,2): lavender (short, dry, purple) (3,3): crocus (med, dry, orange)
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Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink)
(2,1): buttercup (short, dry, yellow) (2,2): petunias (med, wet, pink) (2,3): snapdragons (tall, dry, red)
(3,1): poppy (med, dry, red) (3,2): iris (tall, dry, purple) (3,3): crocus (med, dry, orange)
L = [roses, lilies, azalea, buttercup, petunias, snapdragons, poppy, iris, crocus] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink)
(2,1): buttercup (short, dry, yellow) (2,2): petunias (med, wet, pink) (2,3): snapdragons (tall, dry, red)
(3,1): poppy (med, dry, red) (3,2): iris (tall, dry, purple) (3,3): chrysanthemum (tall, dry, pink)
L = [roses, lilies, azalea, buttercup, petunias, snapdragons, poppy, iris, chrysanthemum] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink)
(2,1): buttercup (short, dry, yellow) (2,2): petunias (med, wet, pink) (2,3): snapdragons (tall, dry, red)
(3,1): poppy (med, dry, red) (3,2): iris (tall, dry, purple) (3,3): sunflower (tall, dry, yellow)
L = [roses, lilies, azalea, buttercup, petunias, snapdragons, poppy, iris, sunflower] ;
Garden plan (R,C: species (size, water, color))
(1,1): roses (med, dry, red) (1,2): lilies (short, dry, white) (1,3): azalea (med, dry, pink)
(2,1): buttercup (short, dry, yellow) (2,2): petunias (med, wet, pink) (2,3): snapdragons (tall, dry, red)
(3,1): poppy (med, dry, red) (3,2): sunflower (tall, dry, yellow) (3,3): crocus (med, dry, orange)
L = [roses, lilies, azalea, buttercup, petunias, snapdragons, poppy, sunflower, crocus]

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