Problem J1

Dressing Up

Judging instructions: There are **three** test cases, each valued at **5** points, 2 points for the proper number of lines, 2 for the proper number of "*" s, and one for structure.

Prompts for input do not need to be exactly as shown here or on the problem page.

Input 1

Enter Height: 5

Output 1

Input 2

Enter Height: 15

Input 3

Enter height: 21

*
**

**
*

Problem J2

Mod Inverse

Judging instructions : There are 5 test cases, each valued at 3 points.
Prompts for input do not need to be exactly as shown here or on the problem page

Input 1

Enter x: 4	Output 1
Enter m: 17	13

Input 2

Enter x: 6	Output 2
Enter m: 10	No such integer exists.

Input 3

Enter x: 73	Output 3
Enter m: 89	50
Input 4	

Output 4

Enter m:	100	51

Input 5

Enter x: **51**

Enter x: 55	Output 5
Enter m: 100	No such integer exists.

Problem J3S1

Keeping Score

Judging instructions: There are five test cases. Each case is worth 3 points, 1 each for: reporting the hand, scoring the suits, and total score. Deduct at most 2 points if the columns are not aligned. Total 15 points.

Prompts for input do not need to be exactly as shown here or on the problem page.

Input 1

Enter cards: CD23456789TJQKAHS

Output 1

Cards Dea	alt	-												Points
Clubs														3
Diamonds	2	3	4	5	6	7	8	9	Т	J	Q	K	Α	10
Hearts														3
Spades														3
_												To	ota	1 19

Input 2

Enter cards: CD2H34S56789TJQKA

Output 2

Cards Dealt	Points
Clubs	3
Diamonds 2	2
Hearts 3 4	1
Spades 5 6 7 8 9 T J Q K A	10
Tot	al 16

Input 3

Enter cards: C23JD45QH67KS89TA

Cards Dealt	Points
Clubs 2 3 J	1
Diamonds 4 5 Q	2
Hearts 6 7 K	3
Spades 8 9 T A	4
_	Total 10

Input 4

Enter cards: C234D456H678S789T

Output 3

Cards Dealt	Points
Clubs 2 3 4	0
Diamonds 4 5 6	0
Hearts 6 7 8	0
Spades 7 8 9 T	0
Tota	1 0

Input 5

Enter cards: CJQKADQKAHQKASQKA

Cards Dealt	Points
Clubs J Q K A	10
Diamonds Q K A	9
Hearts Q K A	9
Spades Q K A	9
	Total 37

Problem J4S2

Spirals

Judging instructions: There are 5 test cases. Each case is worth 3 points, 1 each for starting and stopping at the correct values, and one for the spiral. Deduct at most 3 points for columns not lining up. Total 15 points.

Prompts for input do not need to be exactly as shown here or on the problem page.

Input 1	Output 1
Start value: 15	15
End value : 15	
Input 2	Output 2
Start value: 1	1 2
End value : 2	2
Input 3	Output 3
Start value: 10	16 15 14 25 17 10 13 24
End value : 25	18 11 12 23 19 20 21 22
Input 4	Output 4
Input 4 Start value : 1	73 72 71 70 69 68 67 66 65
	-
Start value : 1	73 72 71 70 69 68 67 66 65 74 43 42 41 40 39 38 37 64 99 75 44 21 20 19 18 17 36 63 98 76 45 22 7 6 5 16 35 62 97 77 46 23 8 1 4 15 34 61 96 78 47 24 9 2 3 14 33 60 95 79 48 25 10 11 12 13 32 59 94 80 49 26 27 28 29 30 31 58 93 81 50 51 52 53 54 55 56 57 92
Start value : 1 End value : 99	73 72 71 70 69 68 67 66 65 74 43 42 41 40 39 38 37 64 99 75 44 21 20 19 18 17 36 63 98 76 45 22 7 6 5 16 35 62 97 77 46 23 8 1 4 15 34 61 96 78 47 24 9 2 3 14 33 60 95 79 48 25 10 11 12 13 32 59 94 80 49 26 27 28 29 30 31 58 93 81 50 51 52 53 54 55 56 57 92 82 83 84 85 86 87 88 89 90 91

19 20 21 22