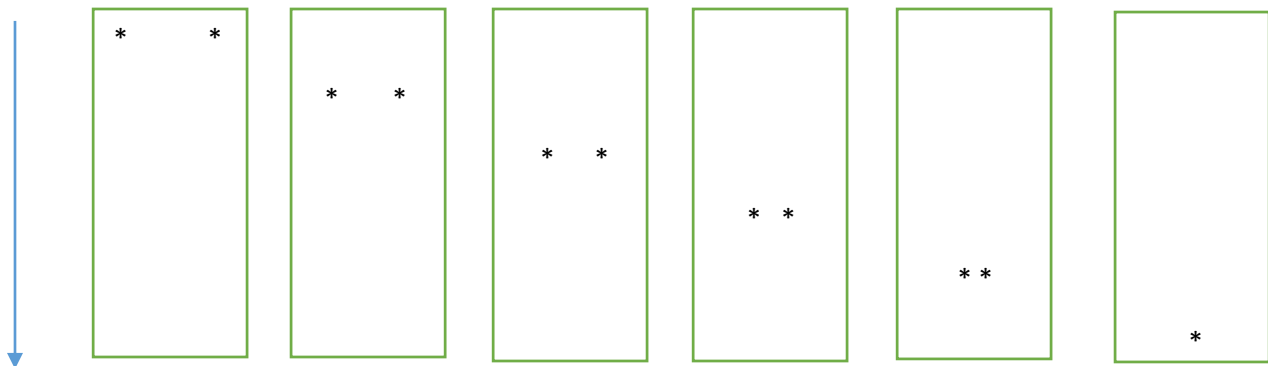


PERFORM Q1 WITHOUT USING STRING INSTRUCTIONX

Question # 1

Write an infinite loop that shows two moving asterisks. One asterisk move from top left corner to its **forward diagonal**, one asterisk move from top right corner to its **backward diagonal**, **when they meet, move them in reverse direction**. Use two empty nested loops with large counters to introduce some delay so that the movement is noticeable, **when asterisk moves forward, place space on its previous location**.



PERFORM FOLLOWING TASKS USING STRING INSTRUCTIONS

Question # 2

Write a subroutine named trim which removes all whitespaces from a given string. For example: if the string is "This is FAST", then after trimming, the string should become: "ThisisFAST"

Question # 3

Write a subroutine that displays formation of a triangle of a character. The character is stored in memory and the memory location is a parameter of the subroutine. The triangle is formed, as rows of that character are seen falling down from top of the screen to the base and stack on top of each other. The length of the rows decreases by two characters in every two consecutive rows. The length of the base is also a parameter to the subroutine. Assume that the length of the base will never be greater than 50 and will always be an odd number.

Example

Character: db ''*

Base: db 9

...	36	37	38	39	40	41	42	43	44	...
1	*	*	*	*	*	*	*	*	*	
2										
.										
.										
.										
24										
25										

...	36	37	38	39	40	41	42	43	44	...
1										
2	*	*	*	*	*	*	*	*	*	
.										
.										
.										
24										
25										

...	36	37	38	$\frac{3}{9}$	40	41	42	43	$\frac{4}{4}$...
1										
2										
.	*	*	*	*	*	*	*	*	*	
.										
.										
24										
25										

...	36	37	38	39	$\frac{4}{0}$	41	42	43	$\frac{4}{4}$...
1										
2										
.	*	*	*	*	*	*	*	*	*	
.										
.										
24										
25										

...	36	37	38	$\frac{3}{9}$	40	41	42	43	$\frac{4}{4}$...
1										
2										
.										
.										
.	*	*	*	*	*	*	*	*	*	
24										
25										

...	36	37	38	39	$\frac{4}{0}$	41	42	43	$\frac{4}{4}$...
1										
2										
.										
.										
.										
24	*	*	*	*	*	*	*	*	*	
25										

...	36	37	38	$\frac{3}{9}$	40	41	42	43	$\frac{4}{4}$...
1										
2										
.										
.										
.										
24										
25	*	*	*	*	*	*	*	*	*	

...	36	37	38	39	$\frac{4}{0}$	41	42	43	$\frac{4}{4}$...
1		*	*	*	*	*	*	*		
2										
.										
.										
.										
24										
25	*	*	*	*	*	*	*	*	*	

مالی دا کم پانی دینا، بھر بھر مشکاں پاوے
مالک دا کم پھل پھل لانا لاوے یا نہ لاوے

The gardener's job is to water the plants with skin-bags full of water,
It is up to the lord to allow fruits and flowers to grow.

نیچاں دی اشنائی کولوں فیض کسے نہیں پایا
ککرتے انگور چڑھایا ہر گچھا زخمایا

No one has ever gained goodness from the proximity of the mean,
If you wind grapevine around an kikar (acacia) tree, every bunch of grapes will be pricked (wounded).

Saif-ul-Malook