Practice problems in C & C++

Set - 1

1. Read	l a number	r n from	user and	d create a	ın array	of size n.	Store	the indices	as values	and prin	t them	in reve	rse
order.													

- 2. Implement a minimal version of grep command. List its limitations.
- 3. Implement a minimal version of tac command, that does opposite of cat.
- 4. Implement a function that takes matrix A and a number n to push the contents as follows:
 - n: 2
 - A: 1 2 3 4
 - 5 6 7 8
 - 9 10 11 12
 - 13 14 15 16

results in ...

- 3 4 5 6
- 7 8 9 10
- 11 12 13 14
- 5. Implement a function that takes matrix A, power p and number n so that:

$$A = A^{p}$$
 if $n=0$

$$A = (A^T)^p$$
 otherwise

- 6. Implement insertion sort using:
 - (a) linked lists
 - (b) arrays

7. Implement a function that takes a number r to print a circle of '*' with radius of r columns. With a small trick, it might be made to look like the one below:

