

TASK 1:

1. DEIAGCJBFBKH
2. IEGACJDFBHK
3. IGJCAEFHKBD
4. DEBIAFKGCHJ
5. Array:

0	1	2	3	4	5	6	7	8	9
D	E	B	I	A	F	K			G
10	11	12	13	14	15	16	17	18	19
C			H						
20	21	22	23	24	25	26	27	28	29
		J							
30	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-

6. Array:

0	1	2	3	4	5	6	7	8	9	10
A	B	C	D	E	F	G	H	I	J	K
6 2	10 5	-1 9	4 1	8 0	-1 -1	-1 -1	-1 -1	-1 -1	-1 -1	7 -1

7. $O(n)$, because it goes through all elements.
8. $O(n)$, because it goes through all elements.