MAIN FUNCTION

1. Read n // Number of types of gifts
2. for i=1 to n
3. Read A[i] // Numbers in the gift boxes
4. Read s //Special gift number
5. Game(A,n,s)

GAME FUNCTION

1. m=n
2. k=0
3. while i<n //Similar to binary search algo division into half
4. For j=1 to m
5. Print A[j]
6. If A[j]==s
7. B[k]=i
8. k++
9. If m%2==0
10. m/=2
11. else
12. m=(m/2)+1
13. If m==1
14. Print i
15. Print A[j]
16. If A[j]==s
17. B[k]=i
18. k++
19. Print i+1
20. Print A[j+1]
21. If A[j]==s
22. B[k]=i
23. k++
24. i\*=2
25. i=3
26. m=n/2
27. while i<n
28. For j=m to n
29. Print A[j]
30. If A[j]==s
31. B[k]=i
32. k++
33. If m%2==0
34. m/=2
35. else
36. m=(m/2)+1
37. if(m==1)
38. Print i
39. Print A[j]
40. If A[j]==s
41. B[k]=i
42. k++
43. Print i+1
44. Print A[j+1]
45. If A[j]==s
46. B[k]=i
47. k++
48. i+=2
49. for i=1 to k
50. Print B[i]