Sample Input:

4 0

4 1

4 2

4 3

Solution[i]	i(index)	Absolute Difference=0
1	1	0
2	2	0
3	3	0
4	4	0

Solution[i]	i (index)	Absolute Difference=1
2	1	1
1	2	1
4	3	1
3	4	1

Solution[i]	i(index)	Absolute Difference=2
3	1	2
4	2	2
1	3	2
2	4	2

Solution[i]	i (index)	Absolute Difference=3

NOT POSSIBLE

Sample Output : 1 2 3 4 2 1 4 3 3 4 1 2 -1

* Sample Output format to be submitted on the website: 1 P 2 P 3 P 4 NP

(here the integers represent solution of the particular test case on each line)

(P - Possible , NP - Not Possible)

Test Cases:
936 286
948 395
248 62
188 47
97 21
316 158
48 3
78 13
388 97

Your final code should print ans in sample output format and submit answer on website in *
format.