

A newspaper has 4 pages missing i can tell you that pages 6 and 19 are missing. How many pages were in the original newspaper?

In newspaper pages  $1, 2, n - 1, n$  are in one list of paper ( $n$  – number of last page) pages

$3, 4, n - 3, n - 2$  in another list,

therefore in one list we have pages with numbers:

$2k + 1, 2k + 2, n - 2k - 1, n - 2k$ ,  $k$ - some integer number (0, 1, 2 ...)

Therefore:

$$6 = 2k + 2 \Rightarrow k = 2$$

$$19 = n - 2k - 1 \Rightarrow n = 19 + 2 * 2 + 1 = 24$$

Answer: in the original newspaper were 24 pages