



Day 1

Part 1

First, we sort the number columns on the left side and the right side of each pair. Then, we calculate the distance between the two numbers in each pair.

Sorted Number Pairs	Calculated Distances
(77710, 11556),	393,
(22632, 23674),	415,
(82229, 77288),	406,
(35788, 30924),	454,
(84000, 63702),	455,
(28350, 62605),	512,
(15185, 47495),	959,
(59530, 63702),	582,
(38142, 60772),	530,
(53694, 41728),	516,
(38645, 53443),	456,
(14632, 43457),	399,
(54935, 60772),	395,
(80251, 67650),	133,
(45254, 80940),	0,
(92045, 48739),	80,
(88570, 62608),	116,
(36464, 14863),	456,
(15072, 50428),	476,
(47732, 12515),	626,
(66594, 38710),	1146,
(49622, 63960),	1270,
(38988, 83798),	1448,
(80235, 95974),	1327,
(66138, 48396),	1022,
(24678, 63702),	775,
(89750, 21245),	779,
(49637, 60225),	718,
(66174, 33783),	754,
(31929, 60355),	358,
(86217, 38710),	373,
(63702, 64237),	386,
(10029, 40993),	317,
(18724, 11247),	264,
(86376, 33183),	513,
(38846, 77319),	589,
(71807, 81452),	335,
(95125, 65995),	103,
(14313, 48739),	127,
(43968, 82639),	371,
.. (960 items omitted),	.. (960 items omitted),

The sum of all distances is **1197984**.

Part 2

Next, we calculate the similarity score for each number on the left side. The similarity score is the product of the number and the count of the number on the right side.

Parsed Number Pairs		Similarity Scores
(77710, 11556),		0,
(22632, 23674),		0,
(82229, 77288),		0,
(35788, 30924),		0,
(84000, 63702),		0,
(28350, 62605),		0,
(15185, 47495),		0,
(59530, 63702),		0,
(38142, 60772),		0,
(53694, 41728),		0,
(38645, 53443),		0,
(14632, 43457),		0,
(54935, 60772),		0,
(80251, 67650),		0,
(45254, 80940),		179952,
(92045, 48739),		0,
(88570, 62608),		0,
(36464, 14863),		0,
(15072, 50428),		0,
(47732, 12515),	↪	0,
(66594, 38710),		0,
(49622, 63960),		0,
(38988, 83798),		0,
(80235, 95974),		0,
(66138, 48396),		0,
(24678, 63702),		0,
(89750, 21245),		0,
(49637, 60225),		0,
(66174, 33783),		0,
(31929, 60355),		0,
(86217, 38710),		0,
(63702, 64237),		0,
(10029, 40993),		0,
(18724, 11247),		0,
(86376, 33183),		0,
(38846, 77319),		0,
(71807, 81452),		180245,
(95125, 65995),		0,
(14313, 48739),		0,
(43968, 82639),		0,
.. (960 items omitted),		.. (960 items omitted),

↪ The sum of all similarity scores is **23387399**.