\[n=49\]
\[(x_1, x_2, \ldots, x_{29}) = (24, 75, 73, 26, 1, 98, 50, 49, 13, 86, 62, 37, 12, 87, 61, 38, 19, 80, 68, 31, 6, 93, 55, 44, 18, 81, 67, 32, 7, 92, 56, 43, 23, 76, 72, 27, 2, 97, 51, 48, 14, 85, 63, 36, 11, 88, 60, 39, 20, 79, 69, 30, 5, 94, 54, 45, 17, 82, 66, 33, 8, 91, 57, 42, 22, 77, 71, 23, 3, 96, 52, 47, 15, 84, 64, 35, 10, 89, 59, 40, 21, 78, 70, 29, 4, 95, 53, 46, 16, 83, 65, 34, 9, 90, 58, 41, 74, 25)\]

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