

Memory Usage (ArrayList)

ArrayList Size	Total memory usage (B)
1	~20,000
1,000	~250,000
10,000	~150,000
100,000	~220,000
1,000,000	~320,000
10,000,000	~220,000
100,000,000	~320,000
1,000,000,000	~150,000
10,000,000,000	~320,000
100,000,000,000	~150,000

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100,000,000	~320,000
1,000,000,000	~150,000
10,000,000,000	~320,000
100,000,000,000	~150,000

Input Size	Total memory usage (B)
1	~550,000
1	~50,000
2	~50,000
2	~50,000
3	~550,000
3	~550,000
4	~550,000
4	~550,000
5	~550,000
5	~550,000
6	~50,000
6	~50,000
7	~550,000
7	~550,000
8	~550,000
8	~550,000
9	~550,000
9	~550,000
10	~550,000
10	~550,000

Category	Memory Usage (Approx.)
1	550,000
2	50,000
3	50,000
4	550,000
5	550,000
6	550,000
7	550,000
8	50,000
9	550,000
10	550,000