Project 2: Sink Source and Cgl

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Sink and Source

1. When $N = 100$, set round 1000 as maximum round. the Time data is:

ω	0.05	0.3	0.6	1.0	1.2	1.4	1.6	1.8
time	0.37	0.36	0.33	0.33	0.27	0.23	0.19	0.16
round	1000	1000	1000	948	779	647	535	419
ω	1.85	1.9	1.92	1.925	1.93	1.935	1.94	1.5
time	0.14	0.14	0.11	0.11	0.1	0.12	0.26	0.37
round	369	309	281	224	220	310	715	1000

2. When $N = 200$,

ω	1.6	1.8	1.85	1.9	1.92	1.93	1.94
time	1.11	1	0.94	0.9	0.9	0.92	1.03
round	986	743	695	662	623	597	692

So the time is nearly proportional with the grid length.