

## Optimal Schedule (Daily)

day_index	date	price	Injection	Withdrawal	Inventory_End
1	2026-04-01	32.6837218	0	0	0
2	2026-04-02	32.6837218	0	0	0
3	2026-04-03	32.6837218	0	0	0
4	2026-04-04	32.6837218	0	0	0
5	2026-04-05	32.6837218	0	0	0
6	2026-04-06	32.6837218	0	0	0
7	2026-04-07	32.6837218	0	0	0
8	2026-04-08	32.6837218	0	0	0
9	2026-04-09	32.6837218	0	0	0
10	2026-04-10	32.6837218	0	0	0
11	2026-04-11	32.6837218	0	0	0
12	2026-04-12	32.6837218	0	0	0
13	2026-04-13	32.6837218	0	0	0
14	2026-04-14	32.6837218	0	0	0
15	2026-04-15	32.6837218	0	0	0
16	2026-04-16	32.6837218	0	0	0
17	2026-04-17	32.6837218	0	0	0
18	2026-04-18	32.6837218	0	0	0
19	2026-04-19	32.6837218	0	0	0
20	2026-04-20	32.6837218	0	0	0
21	2026-04-21	32.6837218	0	0	0
22	2026-04-22	32.6837218	0	0	0
23	2026-04-23	32.6837218	0	0	0
24	2026-04-24	32.6837218	0	0	0
25	2026-04-25	32.6837218	0	0	0
26	2026-04-26	32.6837218	0	0	0
27	2026-04-27	32.6837218	0	0	0
28	2026-04-28	32.6837218	0	0	0
29	2026-04-29	32.6837218	0	0	0
30	2026-04-30	32.6837218	0	0	0
31	2026-05-01	31.69874016	0	0	0
32	2026-05-02	31.69874016	0	0	0
33	2026-05-03	31.69874016	0	0	0
34	2026-05-04	31.69874016	0	0	0
35	2026-05-05	31.69874016	0	0	0
36	2026-05-06	31.69874016	0	0	0
37	2026-05-07	31.69874016	0	0	0
38	2026-05-08	31.69874016	0	0	0
39	2026-05-09	31.69874016	0	0	0
40	2026-05-10	31.69874016	0	0	0
41	2026-05-11	31.69874016	0	0	0

## Optimal Schedule (Daily)

day_index	date	price	Injection	Withdrawal	Inventory_End
42	2026-05-12	31.69874016	0	0	0
43	2026-05-13	31.69874016	0	0	0
44	2026-05-14	31.69874016	0	0	0
45	2026-05-15	31.69874016	0	0	0
46	2026-05-16	31.69874016	0	0	0
47	2026-05-17	31.69874016	0	0	0
48	2026-05-18	31.69874016	0	0	0
49	2026-05-19	31.69874016	0	0	0
50	2026-05-20	31.69874016	0	0	0
51	2026-05-21	31.69874016	0	0	0
52	2026-05-22	31.69874016	0	0	0
53	2026-05-23	31.69874016	0	0	0
54	2026-05-24	31.69874016	0	0	0
55	2026-05-25	31.69874016	0	0	0
56	2026-05-26	31.69874016	0	0	0
57	2026-05-27	31.69874016	0	0	0
58	2026-05-28	31.69874016	0	0	0
59	2026-05-29	31.69874016	0	0	0
60	2026-05-30	31.69874016	0	0	0
61	2026-05-31	31.69874016	0	0	0
62	2026-06-01	31.52839992	0	0	0
63	2026-06-02	31.52839992	0	0	0
64	2026-06-03	31.52839992	0	0	0
65	2026-06-04	31.52839992	0	0	0
66	2026-06-05	31.52839992	0	0	0
67	2026-06-06	31.52839992	0	0	0
68	2026-06-07	31.52839992	0	0	0
69	2026-06-08	31.52839992	0	0	0
70	2026-06-09	31.52839992	0	0	0
71	2026-06-10	31.52839992	0	0	0
72	2026-06-11	31.52839992	0	0	0
73	2026-06-12	31.52839992	0	0	0
74	2026-06-13	31.52839992	0	0	0
75	2026-06-14	31.52839992	0	0	0
76	2026-06-15	31.52839992	0	0	0
77	2026-06-16	31.52839992	0	0	0
78	2026-06-17	31.52839992	0	0	0
79	2026-06-18	31.52839992	0	0	0
80	2026-06-19	31.52839992	0	0	0
81	2026-06-20	31.52839992	0	0	0
82	2026-06-21	31.52839992	0	0	0

## Optimal Schedule (Daily)

day_index	date	price	Injection	Withdrawal	Inventory_End
83	2026-06-22	31.52839992	0	0	0
84	2026-06-23	31.52839992	0	0	0
85	2026-06-24	31.52839992	0	0	0
86	2026-06-25	31.52839992	0	0	0
87	2026-06-26	31.52839992	0	0	0
88	2026-06-27	31.52839992	0	0	0
89	2026-06-28	31.52839992	0	0	0
90	2026-06-29	31.52839992	0	0	0
91	2026-06-30	31.52839992	0	0	0
92	2026-07-01	31.46424575	20000	0	20000
93	2026-07-02	31.46424575	19999.999	0	39999.999
94	2026-07-03	31.46424575	20000	0	59999.999
95	2026-07-04	31.46424575	20000	0	79999.999
96	2026-07-05	31.46424575	20000	0	99999.999
97	2026-07-06	31.46424575	20000	0	119999.999
98	2026-07-07	31.46424575	20000	0	139999.999
99	2026-07-08	31.46424575	20000	0	159999.999
100	2026-07-09	31.46424575	20000	0	179999.999
101	2026-07-10	31.46424575	20000	0	199999.999
102	2026-07-11	31.46424575	20000	0	219999.999
103	2026-07-12	31.46424575	20000	0	239999.999
104	2026-07-13	31.46424575	20000	0	259999.999
105	2026-07-14	31.46424575	20000	0	279999.999
106	2026-07-15	31.46424575	20000	0	299999.999
107	2026-07-16	31.46424575	20000	0	319999.999
108	2026-07-17	31.46424575	20000	0	339999.999
109	2026-07-18	31.46424575	20000	0	359999.999
110	2026-07-19	31.46424575	20000	0	379999.999
111	2026-07-20	31.46424575	20000	0	399999.999
112	2026-07-21	31.46424575	20000	0	419999.999
113	2026-07-22	31.46424575	20000	0	439999.999
114	2026-07-23	31.46424575	20000	0	459999.999
115	2026-07-24	31.46424575	20000	0	479999.999
116	2026-07-25	31.46424575	20000	0	499999.999
117	2026-07-26	31.46424575	0	0	499999.999
118	2026-07-27	31.46424575	20000	0	519999.999
119	2026-07-28	31.46424575	14000	0	533999.999
120	2026-07-29	31.46424575	14000	0	547999.999
121	2026-07-30	31.46424575	4000.00099999999	0	552000
122	2026-07-31	31.46424575	14000	0	566000
123	2026-08-01	31.44276353	14000	0	580000

## Optimal Schedule (Daily)

day_index	date	price	Injection	Withdrawal	Inventory_End
124	2026-08-02	31.44276353	14000	0	594000
125	2026-08-03	31.44276353	14000	0	608000
126	2026-08-04	31.44276353	14000	0	622000
127	2026-08-05	31.44276353	14000	0	636000
128	2026-08-06	31.44276353	14000	0	650000
129	2026-08-07	31.44276353	14000	0	664000
130	2026-08-08	31.44276353	14000	0	678000
131	2026-08-09	31.44276353	14000	0	692000
132	2026-08-10	31.44276353	14000	0	706000
133	2026-08-11	31.44276353	14000	0	720000
134	2026-08-12	31.44276353	14000	0	734000
135	2026-08-13	31.44276353	14000	0	748000
136	2026-08-14	31.44276353	14000	0	762000
137	2026-08-15	31.44276353	14000	0	776000
138	2026-08-16	31.44276353	14000	0	790000
139	2026-08-17	31.44276353	14000	0	804000
140	2026-08-18	31.44276353	14000	0	818000
141	2026-08-19	31.44276353	14000	0	832000
142	2026-08-20	31.44276353	14000	0	846000
143	2026-08-21	31.44276353	14000	0	860000
144	2026-08-22	31.44276353	14000	0	874000
145	2026-08-23	31.44276353	14000	0	888000
146	2026-08-24	31.44276353	14000	0	902000
147	2026-08-25	31.44276353	14000	0	916000
148	2026-08-26	31.44276353	14000	0	930000
149	2026-08-27	31.44276353	14000	0	944000
150	2026-08-28	31.44276353	14000	0	958000
151	2026-08-29	31.44276353	14000	0	972000
152	2026-08-30	31.44276353	14000	0	986000
153	2026-08-31	31.44276353	14000	0	1e+06
154	2026-09-01	31.8696416	0	0	1e+06
155	2026-09-02	31.8696416	0	0	1e+06
156	2026-09-03	31.8696416	0	0	1e+06
157	2026-09-04	31.8696416	0	0	1e+06
158	2026-09-05	31.8696416	0	0	1e+06
159	2026-09-06	31.8696416	0	0	1e+06
160	2026-09-07	31.8696416	0	0	1e+06
161	2026-09-08	31.8696416	0	0	1e+06
162	2026-09-09	31.8696416	0	0	1e+06
163	2026-09-10	31.8696416	0	0	1e+06
164	2026-09-11	31.8696416	0	0	1e+06

## Optimal Schedule (Daily)

day_index	date	price	Injection	Withdrawal	Inventory_End
165	2026-09-12	31.8696416	0	0	1e+06
166	2026-09-13	31.8696416	0	0	1e+06
167	2026-09-14	31.8696416	0	0	1e+06
168	2026-09-15	31.8696416	0	0	1e+06
169	2026-09-16	31.8696416	0	0	1e+06
170	2026-09-17	31.8696416	0	0	1e+06
171	2026-09-18	31.8696416	0	0	1e+06
172	2026-09-19	31.8696416	0	0	1e+06
173	2026-09-20	31.8696416	0	0	1e+06
174	2026-09-21	31.8696416	0	0	1e+06
175	2026-09-22	31.8696416	0	0	1e+06
176	2026-09-23	31.8696416	0	0	1e+06
177	2026-09-24	31.8696416	0	0	1e+06
178	2026-09-25	31.8696416	0	0	1e+06
179	2026-09-26	31.8696416	0	0	1e+06
180	2026-09-27	31.8696416	0	0	1e+06
181	2026-09-28	31.8696416	0	0	1e+06
182	2026-09-29	31.8696416	0	0	1e+06
183	2026-09-30	31.8696416	0	0	1e+06
184	2026-10-01	31.95762026	0	0	1e+06
185	2026-10-02	31.95762026	0	0	1e+06
186	2026-10-03	31.95762026	0	0	1e+06
187	2026-10-04	31.95762026	0	0	1e+06
188	2026-10-05	31.95762026	0	0	1e+06
189	2026-10-06	31.95762026	0	0	1e+06
190	2026-10-07	31.95762026	0	0	1e+06
191	2026-10-08	31.95762026	0	0	1e+06
192	2026-10-09	31.95762026	0	0	1e+06
193	2026-10-10	31.95762026	0	0	1e+06
194	2026-10-11	31.95762026	0	0	1e+06
195	2026-10-12	31.95762026	0	0	1e+06
196	2026-10-13	31.95762026	0	0	1e+06
197	2026-10-14	31.95762026	0	0	1e+06
198	2026-10-15	31.95762026	0	0	1e+06
199	2026-10-16	31.95762026	0	0	1e+06
200	2026-10-17	31.95762026	0	0	1e+06
201	2026-10-18	31.95762026	0	0	1e+06
202	2026-10-19	31.95762026	0	0	1e+06
203	2026-10-20	31.95762026	0	0	1e+06
204	2026-10-21	31.95762026	0	0	1e+06
205	2026-10-22	31.95762026	0	0	1e+06

## Optimal Schedule (Daily)

day_index	date	price	Injection	Withdrawal	Inventory_End
206	2026-10-23	31.95762026	0	0	1e+06
207	2026-10-24	31.95762026	0	0	1e+06
208	2026-10-25	31.95762026	0	0	1e+06
209	2026-10-26	31.95762026	0	0	1e+06
210	2026-10-27	31.95762026	0	0	1e+06
211	2026-10-28	31.95762026	0	0	1e+06
212	2026-10-29	31.95762026	0	0	1e+06
213	2026-10-30	31.95762026	0	0	1e+06
214	2026-10-31	31.95762026	0	0	1e+06
215	2026-11-01	32.43515943	0	0	1e+06
216	2026-11-02	32.43515943	0	0	1e+06
217	2026-11-03	32.43515943	0	0	1e+06
218	2026-11-04	32.43515943	0	0	1e+06
219	2026-11-05	32.43515943	0	0	1e+06
220	2026-11-06	32.43515943	0	0	1e+06
221	2026-11-07	32.43515943	0	0	1e+06
222	2026-11-08	32.43515943	0	0	1e+06
223	2026-11-09	32.43515943	0	0	1e+06
224	2026-11-10	32.43515943	0	0	1e+06
225	2026-11-11	32.43515943	0	0	1e+06
226	2026-11-12	32.43515943	0	0	1e+06
227	2026-11-13	32.43515943	0	0	1e+06
228	2026-11-14	32.43515943	0	0	1e+06
229	2026-11-15	32.43515943	0	0	1e+06
230	2026-11-16	32.43515943	0	0	1e+06
231	2026-11-17	32.43515943	0	0	1e+06
232	2026-11-18	32.43515943	0	0	1e+06
233	2026-11-19	32.43515943	0	0	1e+06
234	2026-11-20	32.43515943	0	0	1e+06
235	2026-11-21	32.43515943	0	0	1e+06
236	2026-11-22	32.43515943	0	0	1e+06
237	2026-11-23	32.43515943	0	0	1e+06
238	2026-11-24	32.43515943	0	0	1e+06
239	2026-11-25	32.43515943	0	0	1e+06
240	2026-11-26	32.43515943	0	0	1e+06
241	2026-11-27	32.43515943	0	0	1e+06
242	2026-11-28	32.43515943	0	0	1e+06
243	2026-11-29	32.43515943	0	0	1e+06
244	2026-11-30	32.43515943	0	0	1e+06
245	2026-12-01	32.66048278	0	30000	970000
246	2026-12-02	32.66048278	0	29460	940540

Optimal Schedule (Daily)

day_index	date	price	Injection	Withdrawal	Inventory_End
247	2026-12-03	32.66048278	0	28929.72	911610.28
248	2026-12-04	32.66048278	0	28408.98504	883201.29496
249	2026-12-05	32.66048278	0	27897.62330928	855303.67165072
250	2026-12-06	32.66048278	0	27395.466089713	827908.205561007
251	2026-12-07	32.66048278	0	26902.3477000981	801005.857860909
252	2026-12-08	32.66048278	0	26418.1054414964	774587.752419413
253	2026-12-09	32.66048278	0	25942.5795435494	748645.172875863
254	2026-12-10	32.66048278	0	25475.6131117655	723169.559764098
255	2026-12-11	32.66048278	0	25017.0520757538	698152.507688344
256	2026-12-12	32.66048278	0	24566.7451383902	673585.762549954
257	2026-12-13	32.66048278	0	24124.5437258992	649461.218824054
258	2026-12-14	32.66048278	0	23690.301938833	625770.916885221
259	2026-12-15	32.66048278	0	23263.876503934	602507.040381287
260	2026-12-16	32.66048278	0	22845.1267268632	579661.913654424
261	2026-12-17	32.66048278	0	22433.9144457796	557227.999208645
262	2026-12-18	32.66048278	0	22030.1039857556	535197.895222889
263	2026-12-19	32.66048278	0	21633.562114012	513564.333108877
264	2026-12-20	32.66048278	0	21244.1579959598	492320.175112917
265	2026-12-21	32.66048278	0	20861.7631520325	471458.411960885
266	2026-12-22	32.66048278	0	20486.2514152959	450972.160545589
267	2026-12-23	32.66048278	0	20117.4988898206	430854.661655768
268	2026-12-24	32.66048278	0	19755.3839098038	411099.277745964
269	2026-12-25	32.66048278	0	19399.7869994274	391699.490746537
270	2026-12-26	32.66048278	0	19050.5908334377	372648.899913099
271	2026-12-27	32.66048278	0	18707.6801984358	353941.219714664
272	2026-12-28	32.66048278	0	18370.9419548639	335570.2777598
273	2026-12-29	32.66048278	0	18040.2649996764	317530.012760123
274	2026-12-30	32.66048278	0	17715.5402296822	299814.472530441
275	2026-12-31	32.66048278	0	17396.6605055479	282417.812024893
276	2027-01-01	32.58797824	0	17083.5206164481	265334.291408445
277	2027-01-02	32.58797824	0	16776.017245352	248558.274163093
278	2027-01-03	32.58797824	0	16474.0489349357	232084.225228157
279	2027-01-04	32.58797824	0	16177.5160541068	215906.709174051
280	2027-01-05	32.58797824	0	15886.3207651329	200020.388408918
281	2027-01-06	32.58797824	0	15600.3669913605	184420.021417557
282	2027-01-07	32.58797824	0	15319.560385516	169100.461032041
283	2027-01-08	32.58797824	0	15043.8082985767	154056.652733464
284	2027-01-09	32.58797824	0	14773.0197492024	139283.632984262
285	2027-01-10	32.58797824	0	14507.1053937167	124776.527590545
286	2027-01-11	32.58797824	0	14245.9774966298	110530.550093916
287	2027-01-12	32.58797824	0	13989.5499016905	96541.000192225

Optimal Schedule (Daily)

day_index	date	price	Injection	Withdrawal	Inventory_End
288	2027-01-13	32.58797824	0	13737.7380034601	82803.262188765
289	2027-01-14	32.58797824	0	13490.4587193978	69312.8034693672
290	2027-01-15	32.58797824	0	13247.6304624486	56065.1730069186
291	2027-01-16	32.58797824	0	13009.1731141245	43055.9998927941
292	2027-01-17	32.58797824	0	12775.0079980703	30280.9918947238
293	2027-01-18	32.58797824	0	12545.057854105	17735.9340406188
294	2027-01-19	32.58797824	0	12319.2468127311	5416.68722788762
295	2027-01-20	32.58797824	0	5416.68722788762	0
296	2027-01-21	32.58797824	0	0	0
297	2027-01-22	32.58797824	0	0	0
298	2027-01-23	32.58797824	0	0	0
299	2027-01-24	32.58797824	0	0	0
300	2027-01-25	32.58797824	0	0	0
301	2027-01-26	32.58797824	0	0	0
302	2027-01-27	32.58797824	0	0	0
303	2027-01-28	32.58797824	0	0	0
304	2027-01-29	32.58797824	0	0	0
305	2027-01-30	32.58797824	0	0	0
306	2027-01-31	32.58797824	0	0	0
307	2027-02-01	32.07698713	0	0	0
308	2027-02-02	32.07698713	0	0	0
309	2027-02-03	32.07698713	0	0	0
310	2027-02-04	32.07698713	0	0	0
311	2027-02-05	32.07698713	0	0	0
312	2027-02-06	32.07698713	0	0	0
313	2027-02-07	32.07698713	0	0	0
314	2027-02-08	32.07698713	0	0	0
315	2027-02-09	32.07698713	0	0	0
316	2027-02-10	32.07698713	0	0	0
317	2027-02-11	32.07698713	0	0	0
318	2027-02-12	32.07698713	0	0	0
319	2027-02-13	32.07698713	0	0	0
320	2027-02-14	32.07698713	0	0	0
321	2027-02-15	32.07698713	0	0	0
322	2027-02-16	32.07698713	0	0	0
323	2027-02-17	32.07698713	0	0	0
324	2027-02-18	32.07698713	0	0	0
325	2027-02-19	32.07698713	0	0	0
326	2027-02-20	32.07698713	0	0	0
327	2027-02-21	32.07698713	0	0	0
328	2027-02-22	32.07698713	0	0	0



## Optimal Schedule (Daily)

day_index	date	price	Injection	Withdrawal	Inventory_End
329	2027-02-23	32.07698713	0	0	0
330	2027-02-24	32.07698713	0	0	0
331	2027-02-25	32.07698713	0	0	0
332	2027-02-26	32.07698713	0	0	0
333	2027-02-27	32.07698713	0	0	0
334	2027-02-28	32.07698713	0	0	0
335	2027-03-01	30.90392269	0	0	0
336	2027-03-02	30.90392269	0	0	0
337	2027-03-03	30.90392269	0	0	0
338	2027-03-04	30.90392269	0	0	0
339	2027-03-05	30.90392269	0	0	0
340	2027-03-06	30.90392269	0	0	0
341	2027-03-07	30.90392269	0	0	0
342	2027-03-08	30.90392269	0	0	0
343	2027-03-09	30.90392269	0	0	0
344	2027-03-10	30.90392269	0	0	0
345	2027-03-11	30.90392269	0	0	0
346	2027-03-12	30.90392269	0	0	0
347	2027-03-13	30.90392269	0	0	0
348	2027-03-14	30.90392269	0	0	0
349	2027-03-15	30.90392269	0	0	0
350	2027-03-16	30.90392269	0	0	0
351	2027-03-17	30.90392269	0	0	0
352	2027-03-18	30.90392269	0	0	0
353	2027-03-19	30.90392269	0	0	0
354	2027-03-20	30.90392269	0	0	0
355	2027-03-21	30.90392269	0	0	0
356	2027-03-22	30.90392269	0	0	0
357	2027-03-23	30.90392269	0	0	0
358	2027-03-24	30.90392269	0	0	0
359	2027-03-25	30.90392269	0	0	0
360	2027-03-26	30.90392269	0	0	0
361	2027-03-27	30.90392269	0	0	0
362	2027-03-28	30.90392269	0	0	0
363	2027-03-29	30.90392269	0	0	0
364	2027-03-30	30.90392269	0	0	0
365	2027-03-31	30.90392269	0	0	0