

# Optimizing the Daily Schedule of a Wellness Center

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Instance #	C	S <sub>c</sub> <sup>C</sup>	#pref	PRIMP-EXACT					PRIMP				
				excl.	uns.	uns.	empl.	cust.	excl.	uns.	uns.	empl.	cust.
				services	pref.	guidel.	time slots	time slots	services	pref.	guidel.	time slots	time slots
1	50	5	5	0.4%	10.4%	13.3%	744	1868	0.4%	12.4%	18.0%	697	1488
2	50	5	5	2.8%	9.2%	14.0%	772	1833	2.8%	12.8%	18.7%	684	1650
3	50	5	5	18.8%	4.4%	5.3%	624	1622	18.8%	5.6%	6.0%	603	1493
4	50	5	7	3.2%	28.3%	24.7%	583	1733	3.2%	13.7%	22.0%	709	1826
5	50	5	7	8.4%	22.3%	12.0%	738	1827	8.4%	23.4%	10.7%	569	1638
6	50	5	7	14.0%	6.3%	13.3%	731	1706	14.0%	10.9%	14.0%	657	1530
7	50	5	10	6.0%	21.6%	8.0%	718	1954	6.0%	23.4%	3.3%	586	1715
8	50	5	10	7.2%	17.8%	19.3%	691	1825	7.2%	19.4%	6.0%	634	1885
9	50	5	10	4.0%	18.2%	20.0%	704	1799	4.0%	21.4%	23.3%	584	1928
10	50	7	5	10.6%	24.4%	32.7%	741	2168	11.7%	21.2%	37.3%	662	1990
11	50	7	5	9.7%	41.6%	38.0%	828	2220	10.0%	39.6%	43.3%	780	1948
12	50	7	5	18.9%	7.2%	20.0%	709	2200	18.9%	9.6%	25.3%	701	2014
13	50	7	7	10.6%	25.4%	34.7%	773	2133	11.1%	27.4%	34.0%	741	2012
14	50	7	7	16.6%	37.1%	40.7%	821	2051	16.6%	34.6%	42.7%	835	1936
15	50	7	7	25.4%	20.0%	16.7%	745	2099	26.0%	21.1%	18.0%	716	1809
16	50	7	10	23.4%	27.2%	13.3%	713	2022	23.4%	29.6%	14.7%	632	1849
17	50	7	10	33.4%	23.4%	2.7%	716	2036	33.4%	21.8%	14.0%	733	1832
18	50	7	10	14.3%	45.2%	28.7%	708	2193	14.9%	41.6%	32.7%	631	1906
19	50	10	5	24.0%	31.6%	46.0%	1047	2296	24.6%	33.2%	45.3%	962	2176
20	50	10	5	24.0%	30.8%	45.3%	1036	2330	23.8%	35.2%	47.3%	959	2257
21	50	10	5	17.8%	38.8%	54.0%	1038	2397	18.8%	38.0%	51.3%	980	2176
22	50	10	7	16.2%	41.1%	52.7%	988	2350	16.4%	36.3%	49.3%	938	2208
23	50	10	7	19.0%	36.3%	46.7%	1086	2456	19.0%	26.6%	44.7%	990	2177
24	50	10	7	18.8%	36.9%	46.0%	1080	2314	19.0%	23.7%	43.3%	916	2142
25	50	10	10	38.0%	41.4%	50.7%	1108	2386	37.6%	28.0%	40.0%	970	1889
26	50	10	10	19.6%	39.8%	44.0%	1064	2347	19.6%	39.4%	45.3%	1040	2213
27	50	10	10	40.2%	36.6%	98.7%	604	2105	40.8%	37.8%	100.0%	569	2046
28	75	5	5	17.3%	52.0%	18.7%	615	2258	17.3%	8.5%	14.2%	734	2601
29	75	5	5	10.4%	32.3%	17.3%	770	2990	10.9%	31.2%	18.7%	749	2403
30	75	5	5	16.8%	27.7%	4.9%	699	2402	16.8%	7.5%	11.1%	702	2789
31	75	5	7	30.1%	18.1%	4.9%	723	2092	29.3%	9.7%	5.3%	787	2459
32	75	5	7	16.3%	39.4%	20.4%	653	2759	16.3%	38.5%	22.2%	680	2673
33	75	5	7	9.3%	39.0%	16.4%	729	3123	9.3%	39.4%	15.6%	726	2780
34	75	5	10	18.4%	38.4%	16.9%	866	2750	18.4%	37.9%	19.1%	830	2494
35	75	5	10	18.9%	33.1%	18.2%	748	2720	20.5%	31.9%	19.6%	738	2688
36	75	5	10	23.7%	34.4%	12.9%	779	2575	24.0%	30.8%	14.2%	730	2225

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Preprint submitted to

Instance #	C	S <sub>c</sub> <sup>C</sup>	#pref	PRIMP-EXACT						PRIMP				
				excl.	uns.	uns.	empl.	cust.	excl.	uns.	uns.	empl.	cust.	
				services	pref.	guidel.	time slots	time slots	services	pref.	guidel.	time slots	time slots	
37	75	7	5	16.6%	34.4%	35.1%	996	3143	16.8%	35.5%	33.3%	957	3212	
38	75	7	5	18.1%	41.1%	34.7%	957	3349	18.3%	40.3%	35.1%	916	2844	
39	75	7	5	20.2%	37.6%	36.4%	1083	3088	21.1%	33.9%	34.7%	1065	2910	
40	75	7	7	13.5%	45.0%	38.2%	1014	3240	13.3%	43.4%	36.9%	1010	3181	
41	75	7	7	21.9%	37.9%	41.3%	1129	3338	22.1%	30.5%	35.1%	1004	2706	
42	75	7	7	23.8%	33.3%	29.3%	1094	3253	23.8%	32.4%	28.0%	971	2829	
43	75	7	10	22.7%	42.4%	39.6%	1306	3327	22.7%	33.3%	33.8%	1211	3094	
44	75	7	10	23.8%	38.4%	33.3%	1319	3119	24.4%	22.5%	20.0%	1250	1857	
45	75	7	10	24.2%	38.3%	31.1%	913	3096	24.2%	20.5%	25.3%	1027	3100	
46	75	10	5	18.0%	39.5%	43.6%	1646	3554	18.4%	15.7%	44.0%	1598	3421	
47	75	10	5	14.9%	37.1%	48.0%	1583	3672	14.9%	34.9%	46.7%	1540	3523	
48	75	10	5	38.3%	75.2%	33.8%	1545	3264	14.1%	42.9%	51.1%	1604	3629	
49	75	10	7	16.1%	45.9%	52.9%	1666	3617	16.5%	39.0%	49.8%	1591	3528	
50	75	10	7	20.1%	40.8%	42.7%	1658	3570	20.1%	39.6%	44.0%	1591	3488	
51	75	10	7	16.3%	51.0%	49.3%	1643	3569	13.9%	48.0%	38.7%	1662	3554	
52	75	10	10	32.5%	45.5%	70.2%	1381	3298	20.3%	36.3%	48.9%	1592	3545	
53	75	10	10	20.3%	38.9%	48.0%	1753	3633	18.7%	26.4%	53.8%	1725	3491	
54	75	10	10	19.7%	44.3%	54.2%	1405	3563	21.2%	40.1%	43.6%	1321	3258	
55	100	5	5	9.4%	43.6%	25.3%	1004	3536	8.4%	33.8%	4.7%	1020	4083	
56	100	5	5	15.8%	39.8%	21.3%	1153	3738	14.0%	37.0%	23.7%	1142	3477	
57	100	5	5	29.8%	37.6%	13.3%	850	3153	30.2%	30.2%	14.3%	915	2928	
58	100	5	7	12.0%	42.3%	26.3%	978	3626	11.4%	31.7%	15.0%	980	3823	
59	100	5	7	14.8%	75.4%	0.7%	1004	4388	14.8%	38.7%	20.0%	1000	3689	
60	100	5	7	12.8%	49.9%	16.0%	922	4096	13.2%	50.3%	17.0%	919	3671	
61	100	5	10	28.6%	22.9%	2.7%	1163	3998	5.0%	26.1%	18.0%	1138	3921	
62	100	5	10	19.8%	33.3%	20.0%	752	3368	19.6%	20.7%	10.3%	775	3648	
63	100	5	10	17.6%	29.9%	13.7%	868	3816	18.0%	33.8%	20.7%	867	3394	
64	100	7	5	13.7%	34.8%	44.0%	1521	4440	14.6%	31.2%	36.0%	1496	4280	
65	100	7	5	11.7%	39.4%	37.7%	1572	4634	10.6%	40.2%	36.0%	1498	4437	
66	100	7	5	17.0%	28.8%	34.0%	1569	4227	17.1%	28.2%	35.0%	1581	4108	
67	100	7	7	12.3%	41.1%	42.7%	1630	4566	12.9%	34.4%	38.3%	1520	4264	
68	100	7	7	17.9%	43.1%	39.0%	1467	4408	19.7%	24.4%	23.7%	1387	3894	
69	100	7	7	26.9%	40.1%	40.7%	1618	4489	23.4%	7.0%	35.3%	1606	4248	
70	100	7	10	21.7%	82.1%	36.0%	1660	4487	14.1%	54.9%	40.7%	1789	4652	
71	100	7	10	22.3%	37.5%	37.0%	1453	4118	21.7%	34.8%	39.0%	1428	3981	
72	100	7	10	14.0%	42.9%	40.0%	1775	4517	14.0%	35.1%	32.7%	1826	4390	
73	100	10	5	20.2%	41.6%	54.3%	2193	4708	19.0%	36.2%	52.7%	2155	4520	
74	100	10	5	18.0%	41.2%	53.0%	1953	4564	18.0%	39.8%	54.0%	1894	4381	
75	100	10	5	17.9%	43.0%	45.0%	2155	4648	17.2%	45.2%	46.3%	2146	4593	
76	100	10	7	19.2%	39.7%	51.7%	2004	4644	19.2%	36.4%	43.7%	1946	4483	
77	100	10	7	94.1%	76.6%	100.0%	1050	2358	47.5%	70.6%	28.7%	1904	2781	
78	100	10	7	94.4%	73.6%	100.0%	982	2285	64.2%	4.3%	100.0%	655	3083	
79	100	10	10	18.7%	42.8%	49.7%	2049	4751	20.9%	29.4%	38.3%	1891	4322	
80	100	10	10	26.7%	37.2%	38.7%	2227	4632	25.8%	31.1%	37.0%	2188	4492	
81	100	10	10	14.5%	81.7%	56.3%	2040	4695	13.6%	39.1%	51.3%	2196	4592	