

HW7. Smart Text Input

Deadline: 2022-1-14 23:59:59

generated at : 2022-1-15 03:05:02

id	check	l_refs	cpu_time	m_peak	lost	m.e.	gcc	i.f.	i.h.	lang	flt	maxrss	?	priority	diversity	func	p_score	score	submission_time
109700045	1.00	63.35 M	20 ms	16.7 MB	0 B	0	0	0	0	cpp	663	3.99 MB	0	1.442	0.00	1.000	100	100	1/12 23:53:03
0713339	1.00	120.14 M	30 ms	15.59 MB	0 B	0	0	0	0	cpp	468	3.63 MB	0	1.422	0.00	1.000	100	100	1/8 21:56:03
109550022	1.00	146.61 M	40 ms	15.98 MB	0 B	0	0	0	0	cpp	536	3.55 MB	0	1.399	0.00	1.000	100	100	1/12 20:39:44
0712254	1.00	159.19 M	40 ms	15.88 MB	0 B	0	0	0	0	cpp	487	3.57 MB	0	1.399	0.00	1.000	100	100	1/9 18:21:46
109550174	1.00	259.93 M	60 ms	15.86 MB	0 B	0	0	0	0	cpp	489	3.63 MB	0	1.362	0.00	1.000	99	100	1/9 14:00:13
109550068	1.00	90.57 M	20 ms	40.05 MB	0 B	0	0	0	0	cpp_shm	715	11.42 MB	0	1.344	0.00	1.000	98	99	12/26 19:53:43
109550070	1.00	311.66 M	70 ms	16.15 MB	0 B	0	0	0	0	cpp	571	3.74 MB	0	1.338	0.00	1.000	98	99	1/10 19:09:44
0717030	1.00	460.83 M	150 ms	16.13 MB	0 B	0	0	0	0	cpp	717	3.85 MB	0	1.297	0.00	1.000	95	98	1/11 00:16:35
109550206	1.00	872.98 M	190 ms	15.6 MB	0 B	0	0	0	0	cpp	430	3.51 MB	0	1.292	0.00	1.000	94	98	1/10 12:05:29
109550074	1.00	1.04 G	280 ms	15.89 MB	0 B	0	0	0	0	cpp	483	3.57 MB	0	1.272	0.00	1.000	93	97	12/23 05:46:26
109550156	1.00	1.36 G	320 ms	15.89 MB	0 B	0	0	0	0	cpp	467	3.51 MB	0	1.259	0.00	1.000	92	97	1/13 06:10:24
109550088	1.00	1.46 G	380 ms	15.87 MB	0 B	0	0	0	0	cpp	472	3.47 MB	0	1.255	0.00	1.000	91	97	1/13 04:09:43
109550110	1.00	1.35 G	440 ms	15.91 MB	0 B	0	0	0	0	cpp	683	3.5 MB	0	1.237	0.00	1.000	90	96	1/11 22:50:32
109550052	1.00	243.96 M	120 ms	28.32 MB	0 B	0	0	0	0	cpp	1.13 K	16.07 MB	0	1.231	0.00	1.000	90	96	1/10 17:10:33
110550023	1.00	125.47 M	60 ms	46.36 MB	0 B	0	0	0	0	cpp_shm	2.63 K	18.72 MB	0	1.224	0.00	1.000	89	96	1/14 15:31:27
109550142	1.00	2.34 G	710 ms	15.99 MB	0 B	0	0	0	0	cpp	566	3.67 MB	0	1.214	0.00	1.000	88	95	1/13 03:49:26
109550100	1.00	2.91 G	560 ms	15.94	0 B	0	0	0	0	cpp	487	3.46	0	1.213	0.00	1.000	88	95	1/13 17:07:08

				MB								MB							
0816078	1.00	2.54 G	700 ms	15.96 MB	0 B	0	0	0	0	cpp	521	3.76 MB	0	1.212	0.00	1.000	88	95	1/14 17:32:20
109550118	1.00	2.36 G	650 ms	16.14 MB	0 B	0	0	0	0	cpp	558	3.83 MB	0	1.212	0.00	1.000	88	95	1/12 22:43:16
109550096	1.00	2.99 G	600 ms	15.87 MB	0 B	0	0	0	0	cpp	473	3.59 MB	0	1.212	0.00	1.000	88	95	1/10 14:25:28
109550130	1.00	2.99 G	630 ms	15.87 MB	0 B	0	0	0	0	cpp	475	3.61 MB	0	1.211	0.00	1.000	88	95	1/10 15:04:21
109550082	1.00	2.35 G	610 ms	16.07 MB	0 B	0	0	0	0	cpp	658	3.55 MB	0	1.207	0.00	1.000	88	95	1/14 23:57:10
109550071	1.00	2.35 G	610 ms	16.07 MB	0 B	0	0	0	0	cpp	656	3.58 MB	0	1.207	0.00	1.000	88	95	1/12 20:54:28
109550164	1.00	2.35 G	630 ms	16.07 MB	0 B	0	0	0	0	cpp	660	3.58 MB	0	1.206	0.00	1.000	88	95	1/11 15:12:12
0816068	1.00	2.35 G	610 ms	16.07 MB	0 B	0	0	0	0	cpp	661	3.75 MB	0	1.204	0.00	1.000	88	95	1/12 22:50:43
109550124	1.00	2.35 G	610 ms	16.07 MB	0 B	0	0	0	0	cpp	661	3.77 MB	0	1.203	0.00	1.000	88	95	1/14 23:32:39
109550150	1.00	2.35 G	620 ms	16.07 MB	0 B	0	0	0	0	cpp	665	3.76 MB	0	1.203	0.00	1.000	88	95	1/12 19:42:51
109550006	1.00	2.54 G	610 ms	16.05 MB	0 B	0	0	0	0	cpp	743	3.56 MB	0	1.196	0.00	1.000	87	95	1/14 22:30:58
0816138	1.00	2.5 G	640 ms	15.93 MB	0 B	0	0	0	0	cpp	825	3.48 MB	0	1.192	0.00	1.000	87	95	1/13 03:40:20
109550018	1.00	3.06 G	670 ms	16.04 MB	0 B	0	0	0	0	cpp	738	3.59 MB	0	1.185	0.00	1.000	86	95	1/12 02:06:05
109550182	1.00	3.06 G	650 ms	16.04 MB	0 B	0	0	0	0	cpp	743	3.77 MB	0	1.182	0.00	1.000	86	94	1/13 21:36:13
0816077	1.00	4.95 G	1 s	16.02 MB	0 B	0	0	0	0	cpp	573	3.7 MB	0	1.172	0.00	1.000	85	94	1/14 00:24:29
109550094	1.00	1.02 G	360 ms	19.97 MB	0 B	0	0	0	0	cpp	1.5 K	7.36 MB	0	1.170	0.00	1.000	85	94	1/11 11:51:04
109550133	1.00	1.08 G	320 ms	30.24 MB	0 B	0	0	0	0	cpp	931	11.56 MB	0	1.169	0.00	1.000	85	94	12/25 10:56:03
0711624	1.00	9.81 G	2 s	15.75 MB	0 B	0	0	0	0	cpp	461	3.47 MB	0	1.152	0.00	1.000	84	94	1/13 03:53:42
109550160	1.00	8.72 G	1 s	15.87	0 B	0	0	0	0	cpp	488	3.7 MB	0	1.152	0.00	1.000	84	94	1/9 23:12:56

				MB															
109550146	1.00	6.6 G	950 ms	15.96 MB	0 B	0	0	0	0	cpp	738	3.5 MB	0	1.147	0.00	1.000	84	93	1/3 22:24:06
109550168	1.00	9 G	2 s	15.98 MB	0 B	0	0	0	0	cpp	537	3.7 MB	0	1.145	0.00	1.000	83	93	1/10 14:32:00
109550046	1.00	989.1 M	210 ms	36.45 MB	0 B	0	0	0	0	cpp	2.49 K	9.78 MB	0	1.134	0.00	1.000	83	93	1/14 15:22:36
0811619	1.00	16.6 G	4 s	15.72 MB	0 B	0	0	0	0	cpp	439	3.33 MB	0	1.131	0.00	1.000	82	93	1/14 20:29:45
109550002	1.00	981.46 M	200 ms	29.87 MB	0 B	0	0	0	0	cpp	3.61 K	10.03 MB	0	1.116	0.00	1.000	81	93	1/13 22:29:16
109550134	1.00	11.65 G	2 s	15.88 MB	0 B	0	0	0	0	cpp	829	3.46 MB	0	1.113	0.00	1.000	81	92	1/14 21:35:57
109550126	1.00	20.02 G	3 s	16.05 MB	0 B	0	0	0	0	cpp	512	3.48 MB	0	1.112	0.00	1.000	81	92	1/11 15:01:52
109550098	1.00	19.35 G	3 s	15.85 MB	0 B	0	0	0	0	cpp	492	3.74 MB	0	1.112	0.00	1.000	81	92	1/14 21:40:48
109550090	1.00	23.41 G	5 s	15.89 MB	0 B	0	0	0	0	cpp	476	3.68 MB	0	1.106	0.00	1.000	81	92	1/13 23:08:40
0812102	1.00	23.72 G	5 s	15.89 MB	0 B	0	0	0	0	cpp	477	3.67 MB	0	1.105	0.00	1.000	81	92	1/13 16:20:04
109652042	1.00	39.03 G	5 s	15.87 MB	0 B	0	0	0	0	cpp	468	3.38 MB	0	1.088	0.00	1.000	79	92	1/12 10:52:23
109550106	1.00	8.81 G	950 ms	16.04 MB	0 B	0	0	0	0	cpp	2.02 K	3.37 MB	0	1.083	0.00	1.000	79	92	1/14 04:36:05
109550132	1.00	8.85 G	1 s	16.05 MB	0 B	0	0	0	0	cpp	2.18 K	3.59 MB	0	1.076	0.00	1.000	78	91	1/14 11:56:58
109550053	1.00	77.37 G	15 s	15.72 MB	0 B	0	0	0	0	cpp	462	3.43 MB	0	1.058	0.00	1.000	77	91	1/12 12:43:25
109652026	1.00	78.28 G	13 s	15.72 MB	0 B	0	0	0	0	cpp	460	3.59 MB	0	1.056	0.00	1.000	77	91	1/14 10:24:59
109652053	1.00	79.18 G	14 s	15.72 MB	0 B	0	0	0	0	cpp	459	3.61 MB	0	1.055	0.00	1.000	77	91	1/14 23:02:29
0816003	1.00	14.42 G	2 s	17.53 MB	120 KB	0	0	0	0	cpp	1.26 K	4.08 MB	0	1.073	0.00	0.993	78	91	1/8 23:44:30
109550058	1.00	2.68 G	370 ms	22.95 MB	0 B	0	0	0	0	cpp	4.62 K	10.75 MB	0	1.050	0.00	1.000	77	91	1/14 15:21:55
109652017	1.00	114.97	21 s	15.77	0 B	0	0	0	0	cpp	448	3.45	0	1.043	0.00	1.000	76	90	1/14 20:29:53

		G		MB							MB								
109550184	1.00	129.61 G	43 s	16.09 MB	0 B	0	0	0	0	cpp	574	3.71 MB	0	1.023	0.00	1.000	75	90	1/9 09:11:08
109550085	1.00	2.51 G	670 ms	30.32 MB	0 B	0	0	0	0	cpp	6.59 K	17.62 MB	0	1.018	0.00	1.000	74	90	1/10 12:17:14
109550178	1.00	9.4 G	1 s	25.97 MB	0 B	0	0	0	0	cpp	2.41 K	13.28 MB	0	1.011	0.00	1.000	74	89	1/10 00:49:50
109550044	1.00	9.1 G	2 s	26.49 MB	0 B	0	0	0	0	cpp	2.52 K	13.48 MB	0	1.010	0.00	1.000	74	89	1/8 13:55:22
109550066	1.00	46.88 G	7 s	39.92 MB	0 B	0	0	0	0	cpp_shm	693	11.32 MB	0	1.004	0.00	1.000	73	89	1/1 20:18:31
baseline	1.00	2.14 G	520 ms	31.47 MB	0 B	0	0	0	0	cpp	12.18 K	18.29 MB	0	1.000	0.00	1.000	73	89	12/23 00:18:05
309551117	1.00	2 G	500 ms	55.64 MB	488 B	0	0	0	0	cpp_shm	12.39 K	26.26 MB	0	0.989	0.00	1.000	72	89	12/22 20:33:48
0712211	1.00	1.7 G	470 ms	52.64 MB	0 B	0	0	0	0	cpp_shm	75.95 K	23.52 MB	0	0.982	0.00	1.000	72	89	1/2 17:10:44
109550001	1.00	5.96 G	1 s	30.27 MB	0 B	0	0	0	0	cpp	6.3 K	17.9 MB	0	0.980	0.00	1.000	71	89	1/14 16:14:17
109550128	1.00	26.23 G	6 s	22.91 MB	0 B	0	0	0	0	cpp	4.58 K	12.93 MB	0	0.944	0.00	1.000	69	88	1/2 19:37:06
109550086	1.00	30.14 G	7 s	43.23 MB	0 B	0	0	0	0	cpp	3.12 K	24.28 MB	0	0.929	0.00	1.000	68	87	1/10 15:03:43
M093638	1.00	86.56 G	25 s	23.62 MB	0 B	0	0	0	0	cpp	2.79 K	11 MB	0	0.923	0.00	1.000	67	87	1/9 15:07:48
109550076	1.00	47.9 G	34 s	40.32 MB	0 B	0	0	0	0	cpp	17.17 M	27.23 MB	0	0.862	0.00	1.000	63	85	12/27 23:33:50
610001005	1.00	152.9 G	48 s	22.24 MB	0 B	0	0	0	0	cpp	17.27 M	17.17 MB	0	0.852	0.00	1.000	62	85	1/8 21:02:50
610001007	1.00	182.5 G	47 s	22.39 MB	0 B	0	0	0	0	cpp	13.54 M	17.1 MB	0	0.846	0.00	1.000	62	85	12/27 21:03:15
0813463	1.00	125.04 G	15 s	33.33 MB	0 B	0	0	0	0	cpp	115.26 K	20.61 MB	0	0.839	0.00	1.000	61	84	1/9 23:12:34
109550054	1.00	115.3 G	19 s	94.53 MB	0 B	0	0	0	0	cpp	51.89 K	6.64 MB	0	0.830	0.00	1.000	61	84	1/14 23:54:03
109550016	1.00	108.68 G	35 s	46.23 MB	0 B	0	0	0	0	cpp_shm	9.92 M	21.99 MB	0	0.828	0.00	1.000	60	84	1/13 15:16:16
109550026	0.04	217.02	70 ms	15.77	0 B	0	0	0	0	cpp	439	3.46	0	0	0.00	0.040	0	2	12/23 22:30:33

		M		MB							MB								
0511258	0.01	191.74 M	60 ms	51.52 MB	10.22 MB	4	0	0	0	cpp_shm	3.7 K	15.4 MB	0	0	0.00	0.007	0	0	1/14 20:34:30
109550153	0.02	865.75 M	260 ms	609.32 MB	573.98 MB	2	0	0	0	cpp	149.23 K	598.71 MB	0	0	0.00	0.001	0	0	1/14 23:38:26
0516048	0.25	-1	2 h	-1	-1	-1	0	0	0	-1	531	3.73 MB	5	0	0.00	0.000	0	0	1/14 21:41:52
0812236	0.00	-1	-1	-1	-1	-1	0	0	0	-1	-1	-1	8	0	0.00	0.000	0	0	1/15 00:06:08
109101012	0.00	-1	13 m	-1	-1	-1	0	0	0	-1	515	3.81 MB	5	0	0.00	0.000	0	0	1/14 22:25:49
109550020	0.00	2.1 G	560 ms	59.93 MB	0 B	0	0	0	0	cpp_shm	5.77 K	43.52 MB	0	0	0.00	0.000	0	0	1/14 23:50:34
109550049	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	12	0	0.00	0.000	0	0	1/5 17:11:47
109550056	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	12	0	0.00	0.000	0	0	1/14 23:26:17
109550158	0.00	-1	-1	-1	-1	-1	0	0	0	-1	-1	-1	8	0	0.00	0.000	0	0	1/14 23:20:57
109550162	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	12	0	0.00	0.000	0	0	1/14 23:19:53

number of submission = 84

number of effective submission (priority>0) = 73

remaining p_score = 0.00

[Field Definitions](#)

```

if (gcc | illegal_func | illegal_header | missing),
    priority = 0
    func = 0
else,
    func = check * (0.95^m_error)
    if ( check==1 ),
        perf_I1 = lg(2+2302770594)/lg(2+I_refs)
        perf_I2 = lg(2+520000)/lg(2+cpu_time) )
        perf_I = (perf_I1>0) ? perf_I1 : perf_I2
        priority = perf_I * max( lg(2+33001472)/lg(2+m_peak) , lg(2+12477*19177472)/lg(2+flt*maxrss) )
    else,
        priority = 0

```

```
p_score = schedule(6000, priority)
```

```
if (m_peak > 0),  
    func *= (m_peak-heap_lost)/m_peak
```

```
diversity = -ln( [number of effective submissions using the same language] / [number of effective submissions] ) * 1.00
```

```
score = min( func*(0.60*100 + 0.40*p_score + diversity), 100)
```