



Ollivander's Inventory



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Problem

Submissions

Leaderboard

Discussions

Harry Potter and his friends are at Ollivander's with Ron, finally replacing Charlie's old broken wand.

Hermione decides the best way to choose is by determining the minimum number of gold galleons needed to buy each *non-evil* wand of high power and age. Write a query to print the *id*, *age*, *coins_needed*, and *power* of the wands that Ron's interested in, sorted in order of descending *power*. If more than one wand has same power, sort the result in order of descending *age*.

Input Format

The following tables contain data on the wands in Ollivander's inventory:

- Wands:** The *id* is the id of the wand, *code* is the code of the wand, *coins_needed* is the total number of gold galleons needed to buy the wand, and *power* denotes the quality of the wand (the higher the power, the better the wand is).

Column	Type
id	Integer
code	Integer
coins_needed	Integer
power	Integer

- Wands_Property:** The *code* is the code of the wand, *age* is the age of the wand, and *is_evil* denotes whether the wand is good for the dark arts. If the value of *is_evil* is 0, it means that the wand is not evil. The mapping between *code* and *age* is one-one, meaning that if there are two pairs, $(code_1, age_1)$ and $(code_2, age_2)$, then $code_1 \neq code_2$ and $age_1 \neq age_2$.

Column	Type
code	Integer
age	Integer
is_evil	Integer

Sample Input

Wands Table:

id	code	coins_needed	power
1	4	3688	8
2	3	9365	3
3	3	7187	10
4	3	734	8
5	1	6020	2
6	2	6773	7
7	3	9873	9
8	3	7721	7
9	1	1647	10
10	4	504	5
11	2	7587	5
12	5	9897	10
13	3	4651	8
14	2	5408	1
15	2	6018	7
16	4	7710	5

17	2	8798	7
18	2	3312	3
19	4	7651	6
20	5	5689	3

Wands_Property Table:

code	age	is_evil
1	45	0
2	40	0
3	4	1
4	20	0
5	17	0

Sample Output

```

9 45 1647 10
12 17 9897 10
1 20 3688 8
15 40 6018 7
19 20 7651 6
11 40 7587 5
10 20 504 5
18 40 3312 3
20 17 5689 3
5 45 6020 2
14 40 5408 1

```

Explanation

The data for wands of *age 45* (code 1):

id	age	coins_needed	power
5	45	6020	2
9	45	1647	10

- The minimum number of galleons needed for *wand(age = 45, power = 2) = 6020*
- The minimum number of galleons needed for *wand(age = 45, power = 10) = 1647*

The data for wands of *age 40* (code 2):

id	age	coins_needed	power
14	40	5408	1
18	40	3312	3
11	40	7587	5
15	40	6018	7
17	40	8798	7
6	40	6773	7

- The minimum number of galleons needed for *wand(age = 40, power = 1) = 5408*
- The minimum number of galleons needed for *wand(age = 40, power = 3) = 3312*
- The minimum number of galleons needed for *wand(age = 40, power = 5) = 7587*
- The minimum number of galleons needed for *wand(age = 40, power = 7) = 6018*

The data for wands of *age 20* (code 4):

id	age	coins_needed	power
10	20	504	5
16	20	7710	5
19	20	7651	6
1	20	3688	8

- The minimum number of galleons needed for *wand(age = 20, power = 5) = 504*
- The minimum number of galleons needed for *wand(age = 20, power = 6) = 7651*
- The minimum number of galleons needed for *wand(age = 20, power = 8) = 3688*

The data for wands of *age 17* (code 5):

id	age	coins_needed	power
20	17	5689	3
12	17	9897	10

- The minimum number of galleons needed for *wand(age = 17, power = 3) = 5689*
- The minimum number of galleons needed for *wand(age = 17, power = 10) = 9897*

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Submissions: [4795](#)

Max Score: 30

Difficulty: Medium

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MySQL



```
1
2 select w.id, p.age, w.coins_needed, w.power
3 from Wands as w join Wands_Property as p on (w.code = p.code)
4 where p.is_evil = 0 and w.coins_needed = (select min(coins_needed) from Wands as w1 join Wands_Property as p1 on (w1.code =
   p1.code) where w1.power = w.power and p1.age = p.age) order by w.power desc, p.age desc;
```

Line: 4 Col: 213

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Testcase 0

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Your Output (stdout)

```
1038 496 4789 10
1130 494 9439 10
1315 492 4126 10
9 491 7345 10
858 483 4352 10
1164 481 9831 10
1288 464 4952 10
861 462 8302 10
412 455 5625 10
996 451 8884 10
1608 446 8351 10
1376 443 1735 10
1330 430 5182 10
1633 425 2206 10
1197 419 3468 10
441 416 2508 10
424 413 997 10
1298 397 3810 10
1125 395 2299 10
333 393 926 10
363 388 4477 10
785 380 1712 10
1578 376 9886 10
455 375 2759 10
238 374 2016 10
421 367 4392 10
346 349 1909 10
874 348 7212 10
483 344 8855 10
1485 340 741 10
1583 339 3867 10
983 337 851 10
185 335 618 10
1325 318 520 10
1938 311 2726 10
1121 310 6498 10
```

1773	308	3489	10
999	301	7322	10
1456	286	6221	10
405	284	1187	10
1903	283	5954	10
114	279	7915	10
525	278	3247	10
707	275	8110	10
1040	271	4993	10
1655	264	2027	10
266	263	2106	10
1520	259	2533	10
426	255	9950	10
1214	254	3927	10
1161	240	4875	10
470	235	1794	10
383	229	918	10
708	222	941	10
564	219	4073	10
1709	211	6749	10
988	209	1775	10
1846	208	529	10
1854	206	4798	10
668	205	1985	10
720	199	601	10
579	189	2951	10
1369	181	6762	10
608	177	7538	10
1723	176	619	10
447	172	4329	10
993	171	2922	10
365	168	4144	10
466	158	5958	10
1434	494	683	9
519	487	6652	9
1184	483	7376	9
582	481	615	9
1556	466	6648	9
1430	464	9556	9
834	455	557	9
644	446	5487	9
260	438	5182	9
189	434	5486	9
1687	430	1188	9
458	416	9740	9
494	414	5869	9
367	413	8763	9
451	398	1581	9
1500	395	7326	9
277	389	2097	9
1472	386	4466	9
373	381	8547	9
1032	380	917	9
896	376	4113	9
1626	375	9862	9
607	374	3734	9
926	367	792	9
1347	364	6443	9
1031	353	6876	9
1869	349	2140	9
101	348	3200	9
1323	345	868	9
919	340	643	9
1570	337	9490	9
679	335	2992	9
1183	310	1738	9
647	308	3172	9
472	306	2022	9
965	297	4329	9
1098	292	5141	9
1300	290	4041	9
719	279	5192	9
1327	278	715	9
1872	275	6149	9
1753	271	4826	9
1810	264	2868	9
1116	263	5321	9
1781	255	7991	9
110	254	5558	9
839	249	3362	9
1555	247	739	9
461	243	6003	9
1720	240	9556	9
520	233	2584	9
882	229	3085	9
1772	219	1780	9
416	211	7726	9
1400	209	1568	9
54	208	1507	9
111	205	7125	9
452	202	2760	9
1035	199	703	9
1114	178	8085	9
162	176	4929	9
201	168	4174	9
1649	164	8391	9
1177	158	5001	9
1852	496	1645	8
246	494	828	8
1231	491	4540	8

1383	487	1881	8
209	481	543	8
1196	466	7501	8
1345	464	4883	8
975	451	3790	8
966	446	7264	8
1621	443	9833	8
1653	432	5529	8
1247	430	1850	8
491	419	842	8
1368	416	1031	8
1811	414	4931	8
1282	413	5423	8
1589	398	522	8
689	397	7834	8
1719	395	6039	8
894	393	1745	8
1058	389	3607	8
1498	388	7509	8
35	386	1867	8
991	382	1542	8
264	381	4813	8
1669	380	623	8
995	376	954	8
1885	375	3919	8
1453	374	6469	8
1129	367	1066	8
1477	361	9542	8
1076	353	3811	8
468	349	3038	8
1022	348	6984	8
1270	345	5833	8
569	344	2476	8
987	343	6764	8
1754	339	6855	8
1829	335	1070	8
1117	311	856	8
415	310	526	8
826	308	845	8
817	306	9243	8
202	301	2302	8
1796	297	4564	8
549	292	4835	8
420	290	1197	8
605	286	5054	8
1338	284	7372	8
803	283	4465	8
587	279	3628	8
155	275	2753	8
1537	271	9418	8
1015	264	1696	8
1008	263	7567	8
1402	259	607	8
288	254	6100	8
1420	247	7116	8
436	243	745	8
1340	240	846	8
384	235	1736	8
872	229	824	8
1273	211	9890	8
471	209	704	8
1471	208	3534	8
776	206	7913	8
1457	205	4010	8
1449	202	2450	8
1213	199	2826	8
1567	189	4655	8
963	178	5633	8
1025	177	1024	8
71	172	2245	8
81	496	6908	7
985	494	2401	7
808	491	2129	7
1651	487	1973	7
1232	483	1281	7
398	481	1990	7
1190	466	8050	7
235	464	4357	7
1397	455	3546	7
118	451	6046	7
705	450	6692	7
1828	446	6322	7
1798	443	738	7
1862	438	1473	7
827	434	6585	7
1795	425	7474	7
1851	416	3716	7
696	414	2546	7
1289	413	931	7
1375	395	890	7
492	389	7926	7
1052	388	667	7
1648	382	1719	7
1744	381	6740	7
651	376	586	7
850	375	7312	7
267	374	745	7
1191	367	3425	7
1091	361	3969	7
1812	349	6582	7

523	348	7208	7
804	345	5730	7
542	344	717	7
1971	343	2529	7
667	340	2996	7
46	337	764	7
387	335	7171	7
1859	329	1634	7
1392	320	8898	7
351	318	856	7
1667	311	3537	7
1242	306	5838	7
1192	301	909	7
1972	297	644	7
311	292	6740	7
63	290	7761	7
1496	286	699	7
1794	284	7729	7
875	283	4077	7
1479	279	4474	7
1881	275	7430	7
1442	272	2285	7
1747	271	849	7
842	264	2847	7
1312	263	5432	7
278	259	9600	7
225	254	8004	7
1175	247	9064	7
915	243	2728	7
1357	240	624	7
835	233	600	7
140	222	1076	7
1271	219	3105	7
546	211	2060	7
751	209	1463	7
444	208	6119	7
1084	206	2417	7
1533	205	2578	7
1636	202	4176	7
1877	189	2481	7
1274	178	4168	7
42	177	5708	7
319	172	8013	7
122	168	2180	7
1067	164	5529	7
1432	492	4897	6
321	491	1382	6
574	487	7369	6
275	481	9573	6
670	466	9009	6
1552	464	641	6
656	455	4052	6
1391	451	3905	6
1396	446	5802	6
41	443	3049	6
198	438	4913	6
986	434	6882	6
897	432	2101	6
1166	425	8055	6
801	419	3959	6
435	416	1898	6
806	413	6208	6
750	395	2417	6
1450	393	2094	6
1598	389	4406	6
938	388	1768	6
640	382	1074	6
1385	381	5667	6
1803	380	3467	6
1317	376	2932	6
338	375	712	6
790	367	1373	6
717	361	750	6
811	353	2009	6
193	349	5459	6
179	345	1928	6
1996	344	7822	6
339	343	822	6
330	339	9559	6
1688	337	4112	6
1524	335	4263	6
1943	320	1897	6
23	318	4654	6
1123	311	2233	6
1932	301	3754	6
1673	297	1414	6
1986	290	841	6
1299	286	5589	6
554	284	2123	6
641	279	8632	6
516	278	1906	6
1816	275	1397	6
1588	272	7772	6
196	271	1124	6
960	264	6577	6
866	263	5486	6
1961	259	709	6
1328	255	6197	6
824	254	3571	6
1855	249	6568	6

1665	247	939	6
1286	243	1300	6
1087	240	2500	6
173	235	7189	6
950	233	1691	6
1193	222	759	6
324	219	6659	6
166	211	2782	6
1573	209	754	6
139	208	5422	6
476	205	6650	6
1543	199	4172	6
1727	189	947	6
1475	181	4079	6
78	177	8086	6
1349	176	9851	6
1609	172	727	6
1920	171	1364	6
954	168	9659	6
1152	164	8938	6
1264	496	2740	5
1683	494	7069	5
971	491	6273	5
1702	487	2329	5
1267	483	3934	5
617	481	1923	5
228	464	5901	5
1629	462	989	5
953	451	7238	5
1958	450	956	5
474	446	7886	5
539	443	2788	5
285	432	6321	5
1331	430	5279	5
849	419	5455	5
1717	416	2100	5
830	414	2435	5
90	397	4654	5
413	395	3163	5
234	389	2366	5
602	388	651	5
614	386	2492	5
396	382	4920	5
1738	380	3143	5
1579	376	2003	5
1564	375	5959	5
1953	374	3513	5
1884	367	3603	5
810	364	2248	5
217	353	8993	5
759	349	4318	5
1308	345	2277	5
1974	344	7243	5
199	343	3197	5
669	340	8348	5
489	339	754	5
557	335	576	5
283	320	5822	5
1001	311	935	5
1306	310	9938	5
428	306	709	5
1127	297	1075	5
1063	292	3556	5
979	290	9883	5
1461	286	890	5
927	284	1917	5
1844	283	5319	5
1439	279	1426	5
1436	278	1783	5
1956	275	2093	5
1499	272	4096	5
869	271	1239	5
581	263	3584	5
807	259	862	5
1044	255	5161	5
409	247	7957	5
1519	240	1408	5
873	235	7585	5
1693	222	2884	5
1809	219	2479	5
14	211	870	5
1150	209	2551	5
381	208	5526	5
1352	202	785	5
583	199	520	5
163	189	4345	5
823	181	4505	5
102	178	725	5
908	176	7103	5
1635	172	3121	5
1491	496	6408	4
1960	494	2152	4
1492	492	1439	4
1124	491	1163	4
1799	487	5102	4
604	483	2551	4
538	466	1715	4
1814	462	2464	4
1901	455	2316	4
464	451	1153	4

765	450	3095	4
628	446	2454	4
1793	438	9329	4
203	434	8444	4
1030	432	3212	4
815	430	8380	4
1521	425	9660	4
1220	419	6002	4
1924	416	892	4
1071	414	655	4
1657	413	5497	4
1907	398	9538	4
1043	397	7486	4
1238	395	7148	4
1592	389	1227	4
1427	388	2436	4
1377	386	8068	4
1584	376	3198	4
625	375	4112	4
124	367	4521	4
1736	361	6090	4
1336	349	2230	4
832	344	9319	4
1490	340	3713	4
1742	339	8869	4
1548	337	5171	4
1904	335	5876	4
947	329	3567	4
535	320	4739	4
291	311	3457	4
742	310	3732	4
1440	308	4240	4
1176	306	1724	4
271	297	8239	4
1448	286	905	4
1403	284	1465	4
934	283	3719	4
1999	279	630	4
1301	271	3343	4
561	264	2349	4
1880	263	8489	4
56	255	1509	4
1378	254	5895	4
280	249	9458	4
585	247	8631	4
227	243	1543	4
694	240	808	4
779	235	682	4
1002	233	899	4
917	222	9112	4
1561	219	2680	4
972	211	9359	4
439	209	5237	4
250	206	4639	4
1755	205	1184	4
727	202	2402	4
1179	199	1746	4
431	189	2119	4
187	181	5943	4
207	178	4125	4
107	177	1742	4
1549	176	687	4
1666	172	3544	4
978	168	5212	4
25	164	6500	4
1443	158	4398	4
1198	496	9766	3
853	492	2818	3
1407	483	1501	3
1033	455	8711	3
772	451	709	3
1023	450	3662	3
152	446	602	3
1942	443	1564	3
793	438	2601	3
215	434	901	3
548	432	3690	3
584	425	6585	3
540	419	952	3
943	416	5448	3
784	414	1052	3
1199	413	1073	3
302	398	531	3
1509	397	1655	3
1045	395	1030	3
1899	393	5222	3
272	389	1635	3
103	388	1418	3
1593	382	7807	3
1421	376	5667	3
653	375	6260	3
1766	374	6576	3
1011	367	1083	3
313	364	8846	3
1714	361	7322	3
1791	353	2532	3
1912	349	626	3
1825	348	5368	3
1741	345	7560	3
1788	343	9402	3

1574	339	4333	3
1671	337	556	3
1419	335	643	3
73	320	2495	3
1756	311	6841	3
1200	310	4029	3
836	308	6654	3
1842	306	522	3
1381	297	1629	3
1804	292	7110	3
1305	290	4862	3
296	286	6021	3
1718	284	2168	3
748	283	8332	3
589	278	3044	3
601	275	1510	3
710	264	2555	3
123	249	5931	3
191	247	4178	3
465	243	1424	3
1155	240	4584	3
693	235	2811	3
159	233	1899	3
1965	219	611	3
1065	211	7160	3
1611	208	7653	3
1470	206	6215	3
388	199	7887	3
1478	189	2612	3
709	181	4942	3
1596	178	601	3
37	177	2519	3
147	176	2255	3
1018	172	3240	3
1837	171	5669	3
91	164	2680	3
1293	496	2059	2
1728	494	7392	2
1309	492	2782	2
1354	491	733	2
1366	487	801	2
1236	483	556	2
676	481	2324	2
1778	466	1306	2
1646	464	6785	2
1848	455	4746	2
390	451	602	2
192	450	9708	2
487	446	1722	2
38	443	2750	2
551	438	3185	2
994	430	7359	2
1860	425	2856	2
596	416	2266	2
167	414	3144	2
1284	413	4648	2
70	398	9359	2
716	397	3277	2
729	395	2208	2
1249	393	4436	2
683	389	6896	2
133	388	614	2
1790	386	4949	2
334	382	3236	2
371	381	3436	2
1957	380	9673	2
1388	376	2199	2
1014	375	1555	2
1964	374	4722	2
15	364	1099	2
871	361	3509	2
1235	353	2522	2
1167	349	5906	2
571	348	8962	2
712	345	7448	2
798	344	3185	2
299	343	1255	2
270	340	2284	2
86	339	3064	2
904	335	7241	2
1156	329	1208	2
1143	320	552	2
1398	318	3190	2
1677	310	2090	2
1411	308	5896	2
1182	306	1989	2
1743	301	4361	2
145	292	4695	2
1437	290	2834	2
654	286	3764	2
1332	283	5081	2
1412	279	3741	2
1775	278	5121	2
1508	275	2397	2
1746	272	9908	2
1291	271	751	2
558	264	698	2
459	263	4933	2
1658	254	2847	2
1845	243	1596	2

```
1591 240 4684 2
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