

UIL Computer Science Competition

Invitational B 2020

JUDGES PACKET - CONFIDENTIAL

I. Instructions

- The attached printouts of the judge test data are provided for the reference of the contest director and programming judges. Additional copies may be made if needed for this purpose.
- 2. This packet must remain CONFIDENTIAL. Additional copies may be made and returned to schools when other confidential contest material is returned.

II. Table of Contents

Number	Name
Problem 1	Aran
Problem 2	Brianna
Problem 3	Deepa
Problem 4	Emilio
Problem 5	Guoliang
Problem 6	Irene
Problem 7	Josey
Problem 8	Kelly
Problem 9	Maciej
Problem 10	Nitin
Problem 11	Teresa
Problem 12	Willie

Problem #1 60 Points

1. Aran

Program Name: Aran.java Input File: None

Test Output To Screen:

Day 1: Aa Day 2: AaBb Day 3: AaBbCc Day 4: AaBbCcDd Day 5: AaBbCcDdEe Day 6: AaBbCcDdEeFf Day 7: AaBbCcDdEeFfGq Day 8: AaBbCcDdEeFfGgHh Day 9: AaBbCcDdEeFfGgHhIi Day 10: AaBbCcDdEeFfGgHhIiJj Day 11: AaBbCcDdEeFfGgHhIiJjKk Day 12: AaBbCcDdEeFfGgHhIiJjKkLl Day 13: AaBbCcDdEeFfGgHhIiJjKkLlMm Day 14: AaBbCcDdEeFfGgHhIiJjKkLlMmNn Day 15: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOo Day 16: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPp Day 17: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQq Day 18: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQgRr Day 19: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQgRrSs Day 20: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQgRrSsTt Day 21: AaBbCcDdEeFfGqHhIiJjKkLlMmNnOoPpQqRrSsTtUu Day 22: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVv Day 23: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWw Day 24: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXx Day 25: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYy Day 26: AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYyZz

Problem #2 60 Points

2. Brianna

Program Name: Brianna.java Input File: brianna.dat

Test Input File:

92 29 97 71 38 73 62 64 74 21 77 45 42 81 9 44 57 55 23 1 40 54 36 4 91 59 41 95 47 16 33 6 72 27 14 63

Test Output To Screen:

1 97 96

Problem #3 **60 Points**

3. Deepa

Input File: deepa.dat Program Name: Deepa.java

Test Output To Screen:

0 1

Case #1: \$4,739.50 11.849% Case #2: \$988.26 10.061% Case #3: \$335,689.50 33.569% Case #4: \$4,956.80 34.699% Case #5: \$0.01 1.000%

Problem #4 60 Points

4. Emilio

Program Name: Emilio.java Input File: emilio.dat

```
Test Input File:
25
5.6 3.3 3.5 6.2 4.1 6.3 6.4
6.1 7.6 4.4 3.0 7.8 4.2
4.6 3.4 8.5 4.2 6.6 9.5 9.7 9.3 3.5 7.2
5.5 3.5
35
8.5
5.9 8.5 9.9 9.8 8.3 7.2 6.9
3.8 9.3 6.2 7.7
4.2 7.1 3.4 7.2 4.5 3.2 5.9
5.2 6.8 7.7
9.6 5.5 8.1 10.0
6.2 3.7 5.2 5.8 3.7 4.3 9.1 9.1
3.9
27
7.7 6.2 9.3 9.7 8.5 8.2 8.2 3.4
3.3 9.8 9.2 6.8 3.1 9.7 8.6 7.5
6.1 8.5 5.6 6.1 9.9 5.7 3.7 5.2
4.5 10.0
8.3
20
8.2 8.1
5.4 6.7 4.1 7.3 6.2 6.5 6.9
7.6 5.8 3.7 8.5 3.3
5.9
8.2 9.9 3.2 3.9 4.7
100
5.7
9.9 7.5
8.9 7.0 3.6
5.4 7.3 5.6 6.4 5.5 9.9 10.0 5.8 3.8 7.4
6.7\ 3.6\ 3.0\ 3.6\ 7.3\ 6.5\ 6.3\ 5.5\ 5.0\ 7.3\ 3.5\ 3.5\ 9.6\ 4.6\ 4.6\ 3.9\ 8.6\ 6.0\ 8.6\ 3.5\ 5.1
3.1 \ 8.1 \ 8.6 \ 5.4 \ 6.1 \ 9.4 \ 6.6 \ 9.7 \ 8.1 \ 7.1 \ 8.1 \ 4.8 \ 4.2 \ 6.3 \ 3.4 \ 6.4 \ 6.1 \ 4.6 \ 8.0 \ 4.8 \ 4.4
7.1
9.4 7.9 8.7 8.6 6.1 7.8 5.2 6.1 3.8 7.2 8.5 9.6 5.3 3.6 9.8 4.8 5.9 3.7 8.7 8.1 9.8
9.0
3.9 8.6 3.9 7.3 8.1 8.3 9.2 9.4 7.1 4.9 8.5 8.7 9.5 8.2 8.2
4.4 7.3 9.8
Test Output To Screen:
1: 7.9
1: 3.7
2: 9.2
2: 4.0
3: 9.3
3: 4.7
4: 7.8
4: 4.6
5: 9.8
5: 3.4
```

Problem #5 60 Points

5. Guoliang

Program Name: Guoliang.java Input File: guoliang.dat

Test Input File:

position tickle tub truculent erratic chance equal string bathe butter need irate go cooing repeat look stick pleasant insurance glorious lively fabulous grandiose form kind campgrounds sparkle tense beef face team salt abiding bottle flower typical stiff request

Test Output To Screen:

tickle tub equal string bathe irate qo stick grandiose form kind campgrounds sparkle face team salt flower typical

Problem #6 60 Points

6. Irene

Program Name: Irene.java Input File: irene.dat

Test Input File:

1397 259081

20000

74 573049

82 1690499

10098

27473 11

2147483646

1334367841

Test Output To Screen:

15 DISCRETE SEMIPRIME

16 NOT SEMIPRIME

49 SEMIPRIME

35 DISCRETE SEMIPRIME

72 NOT SEMIPRIME

55 DISCRETE SEMIPRIME

65 DISCRETE SEMIPRIME

700 NOT SEMIPRIME

121 SEMIPRIME

1397 DISCRETE SEMIPRIME

259081 SEMIPRIME

20000 NOT SEMIPRIME

2 NOT SEMIPRIME

74 DISCRETE SEMIPRIME

573049 SEMIPRIME

82 DISCRETE SEMIPRIME

1690499 DISCRETE SEMIPRIME

10098 NOT SEMIPRIME

27473 DISCRETE SEMIPRIME

11 NOT SEMIPRIME

2147483646 NOT SEMIPRIME

1334367841 SEMIPRIME

Problem #7 60 Points

7. Josey

Program Name: Josev.java

Input File: josey.dat

```
Test Input File:
                                                      AREWUTJVKIYOFHL ANWQEDSRKVOMLIG
                                                      VDRJKOYLXQENSWG CGODWUVBTRNHLMP
13
                                                      LCDOEHFXAVORIGS RNYDXLUPEIBCOVM
LIECTENSTEIN SWITZERLAND
                                                      CSTIQPDLNFZBGHY BFQLIJVTNAZWYKE
SWITZERLAND AUSTRIA
                                                      OWUHMDXLCYTSEAN TSZMOFEHPYINXJL
AUSTRIA LIECTENSTEIN
                                                      RUMLWOSJTYKQEBI JSXELHANVWROTDY
                                                      WNIAXPOVUZEHYQF TFMRKLVBCNGQOHX
ITALY SWITZERLAND
SWITZERLAND FRANCE
                                                      IBSQJVFCPOAHWTE PVFWZJMGKCILROX
FRANCE ITALY
                                                      SFUHMVITKWJLCZP SJWGRQUNLKEZHXF
                                                      JSXELHANVWROTDY YNAFKBLPRWQZXVD
TTALY OCEAN
OCEAN FRANCE
                                                      VJHLFUKTDIMZAYB MSEQBVWYOZIUPND
                                                      AYIULJDOWPKBRCH EHJKPVMXWUZDNQO
AUSTRIA SLOVENIA
SLOVENIA OCEAN
                                                      JBYGPRENMZWTCVD GKBVIQFYLRNHCZE
GERMANY AUSTRIA
                                                      WFTOAIOCEZSUNKV RLJFWTAIGZVSDYK
GERMANY SWITZERLAND
                                                      LRJGCKUHXENMDTA HYDGRFILEOXWUTP
OCEAN GERMANY
                                                      REPTJQABNMYKSZW GWSBAKFMOVZTINR
                                                      EMLXOKJZPONYUSB OCEAN
OCEAN ONE
                                                      JNMZXSBDKAEHLFR NTYSFOKDLIEVCRM
ONE TWO
                                                      YJWIOGEHLXSAQFV FVRBLGZCIWYMHXE
TWO THREE
                                                      (see file for remainder of input - 2180 lines)
THREE FOUR
FOUR FIVE
                                                      Test Output To Screen:
FIVE SIX
                                                      Case #1: 1
SIX OCEAN
                                                      LIECTENSTEIN
                                                      Case #2: 2
VALE CROWNLANDS
                                                      FOUR
WESTERLAND REACH
                                                      THREE
REACH STORMLANDS
                                                      Case #3: 0
OCEAN DORNE
                                                      Case #4: 0
STORMLANDS DORNE
                                                      Case #5: 5
RIVERLANDS WESTERLAND
                                                      ECBDGIVNLOPMWYF
RIVERLANDS NORTH
                                                      EWBRFYVSLXHCPZO
OCEAN VALE
                                                      HUFDAYCSXNTGOVL
OCEAN CROWNLANDS
                                                      POFUTSKRCGEAWVX
WESTERLAND OCEAN
                                                      UWOIDXTMBNHLGKY
CROWNLANDS RIVERLANDS
                                                      Case #6: 91
RIVERLANDS OCEAN
                                                      ANWOEDSRKVOMLIG
REACH OCEAN
                                                      AREWUTJVKIYOFHL
                                                      AXFPCIUVHWJZKDT
EARTH WIND
                                                      AYIULJDOWPKBRCH
WATER FIRE
                                                      BAOWXFDNIEUMJVR
FIRE WIND
                                                      BEOLITIVTNAZWYKE
OCEAN WATER
                                                      BNOVJLCMSKIFRWH
FIRE EARTH
                                                      BWUHYAFNXOKPRTE
WATER EARTH
                                                      BZRGSUELFVHIXOK
WIND WATER
                                                      CGODWUVBTRNHLMP
                                                      CSTIOPDLNFZBGHY
UWOIDXTMBNHLGKY EWBRFYVSLXHCPZO
                                                      DBHXKJPVUGZTQIR
PATXESCLNRDZKOH POFUTSKRCGEAWVX
                                                      DCQANEVRXKIGYJU
PWAYIKQGSLOCHXF OCEAN
                                                      DEHYBIMZNVSCKXU
JOSHFDZWGMNCAIT PATXESCLNRDZKOH
                                                      EH-TKPVMXWUZDNOO
HUFDAYCSXNTGOVL IBTOLSZQXGWYEMC
                                                      EHMBTGVNDFCJRLA
JOSHFDZWGMNCAIT PWAYIKQGSLOCHXF
                                                      FPVAJNEHMSYUTLO
HUFDAYCSXNTGOVL ECBDGIVNLQPMWYF
                                                      FTOMNUKCDRPLYBI
JOSHFDZWGMNCAIT OCEAN
                                                      FVCQDTKEUSNHZXY
UWOIDXTMBNHLGKY POFUTSKRCGEAWVX
                                                      FVRBLGZCIWYMHXE
                                                      GKBVIQFYLRNHCZE
IBTOLSZQXGWYEMC DOXNAZGCLWBERTS
EWBRFYVSLXHCPZO ECBDGIVNLQPMWYF
                                                      GOOTFVNHSJKMTRX
OCEAN DOXNAZGCLWBERTS
                                                      GWSBAKFMOVZTINR
                                                      GYBAJLKVNESWORM
JIBGFHNZTMSXWPL OYRPDJULQHWTVCI
                                                      GYVQLUFHSXCPAZJ
MBKPWQOGJINSCTH FPVAJNEHMSYUTLO
                                                      HGUCVSDYLQFIXZJ
TSZMOFEHPYINXJL KLSMIBWEHJTGDFU
                                                      HYDGRFILEOXWUTP
```

(see file for remainder of output - 2053 lines)

LOBMPESNRAVZDWI FTOMNUKCDRPLYBI

Problem #8 60 Points

8. Kelly

Program Name: Kelly.java Input File: kelly.dat

```
Test Input File: (the first ten digits are bolded for the last four data sets listed below)
4 5 2 4 3 1 0 0 4 2 3 4 1 3 1 3 4 3
4 4 1 1 3 5 0 0 1 3 3 4 1 4 1 5 0 0 5 2 3 4 4 2 1 3 4 3
3 5 4 2 3 4 2 2 4 2 1 1 3 2 3 2 2 4 3 3 2 2 0 0 2 4 4 3 0 0 2 1 4 5 3 3
3 2 2 4 4 3 4 3 2 4 3 3 2 2 0 0 3 1 1 5 4 4 4 4 1 5 4 2 4 3 0 0 2 1 3 4 3 1 3
1 3 4 5 2
1 2
2 3
2 5
4 1
5 1
5 3
5 4
5 5
4 4 2 3 2 4 4 3 0 0 2 4 4 3 0 0 1 3 4 2 1 1 5 5 5 4
4 4 1 5 5 3 1 1 4 3 0 0 2 3 2 4 2 2 2 3 0 0 4 3 1 3 2 3 3 4 3 4 3 1 0 0 4 5 2
\begin{smallmatrix}4&3&1&0&0&3&5&4&2&3&4&2&2&4&2&1&1&3&2&3&2&1&5&4&2&4&3&0&0&4&2&4&5&3&1&1&5&0&0\end{smallmatrix}
3 4 4 5 4 2 0 0 5 2 3 4 4 2 3 1 1 4
2 5 1 1 5 1 1 1 0 0 4 1 4 5 2 4 1 3 1 3 3 1 5 4 0 0 1 2 1 5 1 3 1 1 3 2 1 5 0
\begin{smallmatrix}0&3&5&3&4&3&5&4&5&3&1&1&1&4&2&0&0&4&3&3&4&3&4&3&3&0&0&1&1&2&1&4&4&1&5&4&2&0&0\end{smallmatrix}
\begin{smallmatrix}2&4&4&4&0&0&5&2&1&1&4&3&0&0&2&4&3&3&4&4&4&2&3&4&1&4&4&5&1&3&1&5&1&4\end{smallmatrix}
1 1 1 4 1 1 0 0 3 1 3 4 5 1 1 5 3 1 1 1 1 3 1 5 0 0 5 2 1 1 4 3 0 0 5 2 3 4 4
2\;\; 3\;\; 1\;\; 1\;\; 4\;\; 4\;\; 3\;\; 0\;\; 0\;\; 2\;\; 1\;\; 2\;\; 4\;\; 4\;\; 2\;\; 4\;\; 3\;\; 4\;\; 4\;\; 0\;\; 0\;\; 3\;\; 5\;\; 4\;\; 2\;\; 3\;\; 4\;\; 2\;\; 2\;\; 4\;\; 2\;\; 1\;\; 1\;\; 3\;\; 2\;\; 3\;\; 2\;\; 1\;\; 5
4 2 0 0 5 2 4 2 2 4 4 4 2 4 3 3 2 2 0 0 2 1 2 4 4 2 4 3 4 4 0 0 1 1 3 1 2 2 3
4 4 2 2 4 4 4 2 3 3 2
2 1 3 4 4 2 0 0 1 1 0 0 3 2 1 1 1 3 2 3 2 4 3 3 1 5 0 0 5 2 2 4 4 4 2 3 0 0 1
3 2 3 1 1 4 2 3 1 1 5 4 3 0 0 1 2 1 1 1 2 1 2 1 1 2 2 1 5
```

Test Output To Screen:

UIL ROCCS TAP CODE WORCS PROGRAMMING IS FUN MISSING LETTERS FOLLOW В Η J Q V Χ Υ THIS IS CRAZY TEXAS HIGH SCHOOL UIL PROGRAMMERS RULE OUR WORLD JAVA QUICCLY BECAME POPULAR SOON AFTER IT WAS INTRODUCED ADA LOVELACE WAS WORLDS FIRST PROGRAMMER WRITING FIRST ALGORITHM FOR A MACHINE WITH CHARLES BABBAGE

Problem #9 60 Points

9. Maciej

Test Input File:

Test Output To Screen:

Case #1: #7F7F7F
Case #2: #812B18
Case #3: #7F7F7F
Case #4: #808888
Case #5: #000000
Case #6: #000000
Case #7: #7F7F7F
Case #8: #8F663D
Case #9: #FFFFFF
Case #10: #080808

Problem #10 60 Points

10. Nitin

Program Name: Nitin.java Input File: nitin.dat

Test Input File:

15 Willie D Ralph D Rover D Tiger C Daisy D Max C Felix C Lucy D Bubba C Bella C Cooper D Bailey D Simba C Luna D Charlie D 18 Noah C

Tereza D Bruce D Olivia D Terry C Irene D Joseph D Estaban C Rashi D Emily C Igor C Jason C Keith D Tatiana D Ambrocio D Jose C Niti C Samantha D

Test Output To Screen:

Noah CAT Tiger Tereza DOG Willie Bruce DOG Ralph Olivia DOG Rover Terry CAT Max Irene DOG Daisy Joseph DOG Lucy Estaban CAT Felix Rashi DOG Cooper Emily CAT Bubba Igor CAT Bella Jason CAT Simba Keith DOG Bailey Tatiana DOG Luna Ambrocio DOG Charlie Jose WAIT LIST CAT Niti WAIT LIST CAT Samantha WAIT LIST DOG

Problem #11 60 Points

11. Teresa

Program Name: Teresa.java Input File: teresa.dat

	nput File	:										
4 5 4												
194 81 560 41 302 67	9 449 405 0 914 534 0 856 448											
	9 259 477 5 665 652											
558	777	773	761	995								
252 590 2 2	632 828	580 372	639 386	818 489								
987 635	707 409											
25 25 242	146	842	531	923	733	126	740	258	917	535	630	794
212	328	130	675	715	913	608	149	170	558	798	226	964
164	643	495	345	176	327	739	292	751	514	898	552	921
F. 7.0	506	137	206	847	429	706	106	928	784	328	683	858
570	506	948	291	360	124	549 876	419 748	757 979	598 633	833 447	554	613
642	312 265	564 262	652 916	554 634	113 609	746	907	300	181	274	849 938	448 177
012	866	525	581	253	367	948	869	465	991	619	141	853
687	130	518	198	680	506	243	514	818	552	443	478	553
	846	174	157	398	262	913	818	519	149	348	375	367
435	672	243	786	731	359	384	699	150	141	742	628	896
534	964 432	526 214	548 127	483 958	292 947	944 852	290 875	851 976	707 725	297 367	184 279	205 735
001	239	309	460	276	447	854	119	701	725	621	164	536
196	265	957	997	253	257	821	923	727	240	559	422	575
	971	594	515	830	872	763	865	815	152	526	636	769
522	701	425	455	159	929	597	182	818	892	602	910	266
624	879 230	407 205	734 630	882 747	329 318	918 818	272 376	375 185	540 406	596 802	441 567	179 276
024	502	864	294	913	575	746	468	290	745	275	302	740
701	174	117	171	695	265	720	651	475	429	775	902	590
	707	799	291	610	333	771	703	917	875	955	934	113
858	974	246	448	227	235	964	463	444	782	938	420	276
565	910 858	762 435	999 255	599 828	328 893	648 942	345 490	513 125	621 247	456 755	129 574	282 520
303	121	222	482	119	653	826	343	456	761	870	608	627
556	432	143	508	346	290	107	278	871	796	701	701	331
	281	269	179	966	692	546	400	815	620	818	587	240
942	559	202	976	841	358	775	220	254	801	447	174	270
242	986 687	657 786	665 128	728 668	418 182	451 118	353 942	431 949	402 663	884 229	410 261	571 836
272	983	130	463	251	809	683	917	920	625	101	978	491
526	805	466	830	724	294	634	175	645	788	417	825	561
	999	638	695	398	802	129	666	876	145	953	606	288
650	400	947	619	603	659	126	930	820	867	162	438	421
723	366 168	858 746	470 936	185 744	454 255	418 422	502 433	854 736	712 213	600 847	439 197	997 628
123	643	615	434	147	331	469	952	139	753	146	998	677
965	727	209	117	996	991	333	566	911	321	729	826	697
	933	362	115	162	838	836	972	177	500	119	890	231
378	239	821	145	605	433	489	938	859	880	595	951	328
	305	355	648	927	459	253	227	747	198	777	781	581
444	785 914	851 707	998 887	236 367	590 146	105 575	102 240	457 791	521 584	260 260	346 250	800 175
388	360	229	955	358	238	837	846	154	928	814	748	382
	197	172	793	915	139	506	741	282	860	125	989	776
136	449	304	613	832	274	670	513	806	713	655	118	998
	481	711	396	973	320	928	793	227	436	491	360	742
258	967	332	585	273	665	132	612	427	201	281	112	988
	429	201	822	547	341	703	384	868	770	752	318	345

(Test Output next page)

UIL - Computer Science Programming Judge Packet - Invitational B 2020

Teresa - Test Output To Screen: (Note: each output line for the last data set below wraps around) 1: 194 +++ 2: +++3: +++-++++ 4: 2.82

++++++++++

Problem #12 60 Points

12. Willie

2
1
Q

2 Q
Q

Q
Q

Q

Q

(input continued next page)

UIL - Computer Science Programming Judge Packet - Invitational B 2020

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UIL - Computer Science Programming Judge Packet - Invitational B 2020

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UIL - Computer Science Programming Judge Packet - Invitational B 2020

Willie - Test Output To Screen:

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