**GEDCOM Report Sprint2**

1. Input file:

For the most of user stories, the input file is “testOne.ged”. It contains many issues, so this file is able to use for testing most of the user stories. Like below:

0 HEAD  
1 SOUR Family Echo  
2 WWW http://www.familyecho.com/  
1 FILE My Family  
1 DATE 14 OCT 2019  
1 DEST ANSTFILE  
1 GEDC  
2 VERS 5.5.1  
2 FORM LINEAGE-LINKED  
1 SUBM @I3@  
2 NAME Me  
1 SUBN  
1 CHAR UTF-8  
0 @I1@ INDI  
1 NAME Pablo /Alboran/  
2 GIVN Pablo  
2 SURN Alboran  
2 \_MARNM Alboran  
1 SEX M  
1 BIRT  
2 DATE 31 MAR 1989  
1 FAMS @F1@  
1 FAMC @F2@  
0 @I2@ INDI  
1 NAME Sarah /Peter/  
2 GIVN Sarah  
2 SURN Peter  
2 \_MARNM Alboran  
1 SEX F  
1 BIRT  
2 DATE 28 AUG 1989  
1 DEAT Y  
2 DATE 3 JUL 1989  
1 FAMS @F1@  
1 FAMC @F3@  
0 @I3@ INDI  
1 NAME Sam /Alboran/  
2 GIVN Sam  
2 SURN Alboran  
2 \_MARNM Alboran  
1 SEX M  
1 BIRT  
2 DATE 1 JAN 2018  
1 FAMC @F1@  
0 @I4@ INDI  
1 NAME Sam /Peter/  
2 GIVN Sam  
2 SURN Peter  
2 \_MARNM Peter  
1 SEX M  
1 BIRT  
2 DATE 13 AUG 1963  
1 FAMS @F3@  
0 @I5@ INDI  
1 NAME Juila /Peter/  
2 GIVN Juila  
2 SURN Peter  
2 \_MARNM Peter  
1 SEX F  
1 BIRT  
2 DATE 15 JUN 1860  
1 DEAT Y  
2 DATE 1 OCT 2019  
1 FAMS @F3@  
0 @I6@ INDI  
1 NAME Jake /Peter/  
2 GIVN Jake  
2 SURN Peter  
2 \_MARNM Peter  
1 SEX M  
1 BIRT  
2 DATE 11 JUN 1987  
1 DEAT Y  
2 DATE 10 JUN 2009  
1 FAMS @F4@  
1 FAMS @F5@  
1 FAMC @F3@  
0 @I7@ INDI  
1 NAME Jim /Peter/  
2 GIVN Jim  
2 SURN Peter  
2 \_MARNM Peter  
1 SEX M  
1 BIRT  
2 DATE 3 MAR 1986  
1 FAMC @F3@  
0 @I8@ INDI  
1 NAME Dean /Alboran/  
2 GIVN Dean  
2 SURN Alboran  
2 \_MARNM Alboran  
1 SEX M  
1 BIRT  
2 DATE 13 AUG 1960  
1 FAMS @F2@  
0 @I9@ INDI  
1 NAME Sam /Sarah/  
2 GIVN Sam  
2 SURN Sarah  
2 \_MARNM Alboran  
1 SEX F  
1 BIRT  
2 DATE 11 APR 1961  
1 FAMS @F2@  
0 @I10@ INDI  
1 NAME Ricky /Alboran/  
2 GIVN Ricky  
2 SURN Alboran  
2 \_MARNM Alboran  
1 SEX M  
1 BIRT  
2 DATE 20 JAN 1988  
1 FAMC @F2@  
0 @I11@ INDI  
1 NAME Liz /Elisabeth/  
2 GIVN Liz  
2 SURN Elisabeth  
2 \_MARNM Peter  
1 SEX F  
1 BIRT  
2 DATE 8 JUL 1990  
1 DEAT Y  
2 DATE 6 FEB 2008  
1 FAMS @F5@  
0 @I12@ INDI  
1 NAME Dick /Peter/  
2 GIVN Dick  
2 SURN Peter  
2 \_MARNM Peter  
1 SEX M  
1 BIRT  
2 DATE 10 JUL 2007  
1 FAMC @F5@  
0 @I13@ INDI  
1 NAME Berta /Elisabeth/  
2 GIVN Berta  
2 SURN Elisabeth  
2 \_MARNM Peter  
1 SEX F  
1 BIRT  
2 DATE 6 JUN 1991  
1 FAMS @F4@  
0 @I14@ INDI  
1 NAME Joe /Peter/  
2 GIVN Joe  
2 SURN Peter  
2 \_MARNM Peter  
1 SEX M  
1 BIRT  
2 DATE 11 JUN 2012  
1 DEAT Y  
2 DATE 2 APR 2011  
1 FAMS @F6@  
1 FAMC @F4@  
0 @I15@ INDI  
1 NAME Wrongbd /Peter/  
2 GIVN Wrongbd  
2 SURN Peter  
2 \_MARNM Peter  
1 SEX F  
1 BIRT  
2 DATE 6 JUL 2022  
1 DEAT Y  
2 DATE 1 OCT 2019  
1 FAMS @F6@  
1 FAMC @F4@  
0 @I16@ INDI  
1 NAME Testnomomnogender /Peter/  
2 GIVN Testnomomnogender  
2 SURN Peter  
2 \_MARNM Peter  
1 BIRT  
2 DATE 7 MAY 2008  
1 FAMC @F4@  
0 @I17@ INDI  
1 NAME Sam /Alboran/  
2 GIVN Sam  
2 SURN Alboran  
2 \_MARNM Alboran  
1 SEX F  
1 BIRT  
2 DATE 1 JAN 2018  
1 FAMC @F1@  
0 @F1@ FAM  
1 HUSB @I1@  
1 WIFE @I2@  
1 CHIL @I3@  
1 CHIL @I17@  
1 MARR  
2 DATE 13 JUL 1988  
2 PLAC CA  
1 DIV  
2 DATE 3 APR 1990  
1 \_CURRENT N  
0 @F2@ FAM  
1 HUSB @I8@  
1 WIFE @I9@  
1 CHIL @I1@  
1 CHIL @I10@  
1 MARR  
2 DATE 4 MAY 1980  
2 PLAC LA  
1 \_CURRENT Y  
0 @F3@ FAM  
1 HUSB @I4@  
1 WIFE @I5@  
1 CHIL @I2@  
1 CHIL @I6@  
1 CHIL @I7@  
1 MARR  
2 DATE 4 APR 1984  
2 PLAC london  
1 \_CURRENT Y  
0 @F4@ FAM  
1 HUSB @I6@  
1 WIFE @I13@  
1 CHIL @I14@  
1 CHIL @I15@  
1 CHIL @I16@  
1 MARR  
2 DATE 4 MAY 2010  
2 PLAC NY  
1 \_CURRENT Y  
0 @F5@ FAM  
1 HUSB @I6@  
1 WIFE @I11@  
1 CHIL @I12@  
1 MARR  
2 DATE 11 JUN 2006  
2 PLAC NJ  
1 DIV  
2 DATE 2 MAY 2009  
1 \_CURRENT N  
0 @F6@ FAM  
1 HUSB @I14@  
1 WIFE @I15@  
1 \_CURRENT Y  
0 TRLR

For the user stories 13,14, the test file is “testone.ged”. For the user stories 17, the test file is “UserStory17.ged” as below:

0 NOTE Nick Marzullo  
0 HEAD  
0 @I1@ INDI  
1 NAME John /Smith/  
1 SEX M  
1 BIRT  
2 DATE 10 MAR 1957  
1 FAMS @F1@  
1 FAMS @F2@  
0 @I2@ INDI  
1 NAME Jane /Smith/  
1 SEX F  
1 BIRT  
2 DATE 9 JUL 1960  
1 DEAT Y  
2 DATE 27 MAR 1999  
1 FAMS @F1@  
0 @I3@ INDI  
1 NAME AnnaBelle /Smith/  
1 SEX F  
1 BIRT  
2 DATE 6 AUG 1981  
1 FAMC @F1@  
1 FAMS @F1@  
0 @F1@ FAM  
1 HUSB @I1@  
1 WIFE @I3@  
1 CHIL @I3@  
1 MARR  
2 DATE 26 MAY 1980  
2 PLAC Philadelphia  
1 \_CURRENT Y  
0 @F2@ FAM  
1 HUSB @I1@  
1 WIFE @I3@  
1 MARR  
2 DATE 3 OCT 200  
2 PLAC Pittsburgh  
1 \_CURRENT Y  
0 TRLR

1. Output

The output of our program looks like below. If something wrong with the users input file, that error will be list below the family information.

/Library/Java/JavaVirtualMachines/jdk-12.0.2.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea\_rt.jar=58854:/Applications/IntelliJ IDEA.app/Contents/bin" -Dfile.encoding=UTF-8 -classpath /Users/michaelwen/Documents/555/homework/CS-SSW-555-Group-Project/out/production/main main

Individuals:

+---------------------------------------------------------------------------------------------------------------------+

| ID | Name | Gender | Birthday | Age | Alive | Death | Child | Spouse |

+---------------------------------------------------------------------------------------------------------------------+

| I1 | Pablo /Alboran/ | M | 1989-03-31 | 30 | true | NA | F2, | F1, |

+---------------------------------------------------------------------------------------------------------------------+

| I11 | Liz /Elisabeth/ | F | 1990-07-08 | 29 | false | 2008-02-06 | | F5, |

+---------------------------------------------------------------------------------------------------------------------+

| I2 | Sarah /Peter/ | F | 1989-08-28 | 30 | false | 1989-07-03 | F3, | F1, |

+---------------------------------------------------------------------------------------------------------------------+

| I10 | Ricky /Alboran/ | M | 1988-01-20 | 31 | true | NA | F2, | |

+---------------------------------------------------------------------------------------------------------------------+

| I3 | Sam /Alboran/ | M | 2018-01-01 | 1 | true | NA | F1, | |

+---------------------------------------------------------------------------------------------------------------------+

| I13 | Berta /Elisabeth/ | F | 1991-06-06 | 28 | true | NA | | F4, |

+---------------------------------------------------------------------------------------------------------------------+

| I4 | Sam /Peter/ | M | 1963-08-13 | 56 | true | NA | | F3, |

+---------------------------------------------------------------------------------------------------------------------+

| I12 | Dick /Peter/ | M | 2007-07-10 | 12 | true | NA | F5, | |

+---------------------------------------------------------------------------------------------------------------------+

| I5 | Juila /Peter/ | F | 1860-06-15 | 159 | false | 2019-10-01 | | F3, |

+---------------------------------------------------------------------------------------------------------------------+

| I15 | Wrongbd /Peter/ | F | 2022-07-06 | -3 | false | 2019-10-01 | F4, | F6, |

+---------------------------------------------------------------------------------------------------------------------+

| I6 | Jake /Peter/ | M | 1987-06-11 | 32 | false | 2009-06-10 | F3, | F4,F5, |

+---------------------------------------------------------------------------------------------------------------------+

| I14 | Joe /Peter/ | M | 2012-06-11 | 7 | false | 2011-04-02 | F4, | F6, |

+---------------------------------------------------------------------------------------------------------------------+

| I7 | Jim /Peter/ | M | 1986-03-03 | 33 | true | NA | F3, | |

+---------------------------------------------------------------------------------------------------------------------+

| I17 | Sam /Alboran/ | F | 2018-01-01 | 1 | true | NA | F1, | |

+---------------------------------------------------------------------------------------------------------------------+

| I8 | Dean /Alboran/ | M | 1960-08-13 | 59 | true | NA | | F2, |

+---------------------------------------------------------------------------------------------------------------------+

| I16 | Testnomomnogender /Peter/ | | 2008-05-07 | 11 | true | NA | F4, | |

+---------------------------------------------------------------------------------------------------------------------+

| I9 | Sam /Sarah/ | F | 1961-04-11 | 58 | true | NA | | F2, |

+---------------------------------------------------------------------------------------------------------------------+

Family:

+--------------------------------------------------------------------------------------------------------------------------+

| ID | Married | Divorced | Husband ID | Husband Name | Wife ID | Wife Name | Children |

+--------------------------------------------------------------------------------------------------------------------------+

| F6 | NA | NA | I14 | Joe /Peter/ | I15 | Wrongbd /Peter/ | |

+--------------------------------------------------------------------------------------------------------------------------+

| F1 | 1988-07-13 | 1990-04-03 | I1 | Pablo /Alboran/ | I2 | Sarah /Peter/ | I3,I17, |

+--------------------------------------------------------------------------------------------------------------------------+

| F2 | 1980-05-04 | NA | I8 | Dean /Alboran/ | I9 | Sam /Sarah/ | I1,I10, |

+--------------------------------------------------------------------------------------------------------------------------+

| F3 | 1984-04-04 | NA | I4 | Sam /Peter/ | I5 | Juila /Peter/ | I2,I6,I7, |

+--------------------------------------------------------------------------------------------------------------------------+

| F4 | 2010-05-04 | NA | I6 | Jake /Peter/ | I13 | Berta /Elisabeth/ | I15,I14,I16, |

+--------------------------------------------------------------------------------------------------------------------------+

| F5 | 2006-06-11 | 2009-05-02 | I6 | Jake /Peter/ | I11 | Liz /Elisabeth/ | I12, |

+--------------------------------------------------------------------------------------------------------------------------+

ERROR: FAMILY: US16: F1 male members don`t have same last name.

ERROR: FAMILY: US20: F1 : nephew: I2 married uncle: I1

ANOMALY: FAMILY: US08: F3: Child I8 born 1967-03-03 after divorce on 1964-03-08

ERROR: FAMILY: US20: F4 : niece: I6 married uncle: I6

ANOMALY: FAMILY: US08: F4: Child I16 born 2022-07-09 after divorce on 2013-04-06

ERROR: INDIVIDUAL: US03: I15: Died 2019-10-01 before born 2022-07-06

ANOMALY: FAMILY: US08: F4: Child I15 born 2022-07-06 after divorce on 2013-04-06

ERROR: INDIVIDUAL: US12: I8 is more than 60 years younger than Mother: I5

ERROR: FAMILY: US04: F3: Divorced 1964-03-08 before married 1984-07-12

ERROR: US13: FamilyID:F4 children:I16 and children:I15birthday difference greater than 2 days AND less than 8 months

ERROR: FAMILY: US02: F7: wife's birthday 2018-01-01 after marriage 2015-12-06

ANOMALY: FAMILY: US08: F3: Child I8 born 1967-03-03 before marriage on 1984-07-12

ERROR: INDIVIDUAL: US12: I8 is more than 80 years younger than Father: I4

ERROR: US14: FamilyID:F5has more than five child is born in date:2018-01-01

ERROR: US13: FamilyID:F4 children:I15 and children:I16birthday difference greater than 2 days AND less than 8 months

ERROR: US13: FamilyID:F4 children:I14 and children:I16birthday difference greater than 2 days AND less than 8 months

ERROR: INDIVIDUAL: US09: I13 Birthday 2007-07-10 before father's death on 2009-06-10

ANOMALY: FAMILY: US08: F3: Child I2 born 1989-08-28 after divorce on 1964-03-08

ANOMALY: FAMILY: US08: F3: Child I6 born 1987-06-11 after divorce on 1964-03-08

ERROR: FAMILY: US06: F4 Divorced 2013-04-06 after husband's (I6) death on 2009-06-10

ERROR: FAMILY: US16: F2 male members don`t have same last name.

ERROR: INDIVIDUAL: US07: I4: More than 150 years old - Birth date 1863-08-13

ERROR: INDIVIDUAL: US12: I6 is more than 80 years younger than Father: I4

ERROR: FAMILY: US02: F6: wife's birthday 2018-01-01 after marriage 1999-01-01

ERROR: FAMILY: US05: F4 Married 2010-05-04 after husband's (I6) death

For the user story 17 the output is:

Individuals:

+------------------------------------------------------------------------------------------------------------+

| ID | Name | Gender | Birthday | Age | Alive | Death | Child | Spouse |

+------------------------------------------------------------------------------------------------------------+

| I1 | John /Smith/ | M | 1957-03-10 | 62 | true | NA | | F1,F2, |

+------------------------------------------------------------------------------------------------------------+

| I2 | Jane /Smith/ | F | 1960-07-09 | 59 | false | 1999-03-27 | | F1, |

+------------------------------------------------------------------------------------------------------------+

| I3 | AnnaBelle /Smith/ | F | 1981-08-06 | 38 | true | NA | F1, | F1, |

+------------------------------------------------------------------------------------------------------------+

Family:

+-----------------------------------------------------------------------------------------------------------------+

| ID | Married | Divorced | Husband ID | Husband Name | Wife ID | Wife Name | Children |

+-----------------------------------------------------------------------------------------------------------------+

| F1 | 1980-05-26 | NA | I1 | John /Smith/ | I3 | AnnaBelle /Smith/ | I3, |

+-----------------------------------------------------------------------------------------------------------------+

| F2 | 0200-10-03 | NA | I1 | John /Smith/ | I3 | AnnaBelle /Smith/ | |

+-----------------------------------------------------------------------------------------------------------------+

ERROR: FAMILY: US17: Family: F1's member AnnaBelle /Smith/ married parent

ERROR: FAMILY: US10: F2 Married 0200-10-03 but wife: I3 AnnaBelle /Smith/born on 1981-08-06 age < 14 when married

ERROR: INDIVIDUAL: US11: I1 married in Family: [F1, F2]

Process finished with exit code 0

1. Test

A screenshot of a cell phone

Description automatically generatedWe are using the input file “TestFamilyTreeWithmanyissues.ged” as our test file. And here is an example of our test case:

For auto test, we have to assert the output first, if the output contains the information we assert, then this test case is passed, for example:

A screen shot of a computer

Description automatically generated

Here is an example when the test case doesn’t pass:

A screenshot of a cell phone

Description automatically generated