**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: INDIVIDUAL: US03: I14: Died 2011-04-02 before born 2012-06-11

ERROR: FAMILY: US06: F1 Divorced 1990-04-03 after wife's (I2) death on 1989-07-03

ANOMALY: FAMILY: US08: F4: Child I16 born 2008-05-07 before marriage on 2010-05-04

ANOMALY: FAMILY: US08: F1: Child I3 born 2018-01-01 after divorce on 1990-04-03

ANOMALY: FAMILY: US08: F1: Child I17 born 2018-01-01 after divorce on 1990-04-03

ERROR: INDIVIDUAL: US09: I12 Birthday 2007-07-10 before father's death on 2009-06-10

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

ERROR: INDIVIDUAL: US03: I2: Died 1989-07-03 before born 1989-08-28

ERROR: INDIVIDUAL: US12: I7 is more than 60 years younger than Mother: I5

ERROR: FAMILY: US05: F4 Married 2010-05-04 after husband's (I6) death on 2009-06-10

ERROR: INDIVIDUAL: US12: I2 is more than 60 years younger than Mother: I5

ERROR: INDIVIDUAL: US07: I5: More than 150 years old - Birth date 1860-06-15: Death 2019-10-01

ERROR: INDIVIDUAL: US12: I6 is more than 60 years younger than Mother: I5

ERROR: FAMILY: US18: FamilyID: F4 has two children that married each other

ERROR: INDIVIDUAL: US09: I16 Birthday 2008-05-07 before father's death on 2009-06-10

ERROR: INDIVIDUAL: US01: I15: Birthday 2022-07-06 occurs in the future

ERROR: FAMILY: US10: F1 Married 1988-07-13 but wife: I2 Sarah /Peter/born on 1989-08-28 age < 14 when married

ERROR: INDIVIDUAL: US11: I6 married in Family: [F4, F5]

Process finished with exit code 0

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 computer

Description automatically generated