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<!--

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AnyLogic Project File

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import java.util.\*;

import java.util.stream.IntStream;

import java.io.InputStream;

// import java.text.DecimalFormat;

import org.uma.jmetal.experimental.componentbasedalgorithm.catalogue.selection.impl.PopulationAndNeighborhoodMatingPoolSelection;]]></Import>

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</Dimension>

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<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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<Variable Class="CollectionVariable">

<Id>1752664763522</Id>

<Name><![CDATA[c\_optParam]]></Name>

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<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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</CollectionInitializer>

</Properties>

</Variable>

<Variable Class="CollectionVariable">

<Id>1753943679275</Id>

<Name><![CDATA[c\_mamograms]]></Name>

<X>-940</X><Y>290</Y>

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<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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<CollectionInitializer Class="DatabaseQueryCodeValue">

<Type>SELECT\_LIST\_OF\_VALUES</Type>

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<ClassName><![CDATA[mamograms]]></ClassName>

</TableReference>

<ColumnReference>

<PackageName><![CDATA[breastcancer15v1]]></PackageName>

<ClassName><![CDATA[mamograms]]></ClassName>

<ItemName><![CDATA[no\_of\_mamograms]]></ItemName>

</ColumnReference>

</CollectionInitializer>

</Properties>

</Variable>

</Variables>

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<DynamicEventClass>

<Id>1753027013557</Id>

<Name><![CDATA[de\_createModel]]></Name>

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<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Action><![CDATA[createModel();]]></Action>

</DynamicEventClass>

</DynamicEvents>

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<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1752752289288</Id>

<Name><![CDATA[f\_getAvgLifeExpect]]></Name>

<X>-750</X><Y>230</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[return model.get(0).ds\_LifeExp.getYMean();]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753011656869</Id>

<Name><![CDATA[f\_isTotalScreeningsMoreThanAvlMamo]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>-750</X><Y>260</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int totalInvites = 0;

int maxScreenings = (int)Math.ceil( p\_TotalKSAMamo \* (model.get(0).FTE/model.get(0).procedureT) );

for (int age = 0; age < AgeGroup.size(); age++) {

for (int reg = 1; reg < Region.size(); reg++) {

totalInvites += model.get(0).Population.get(reg, age)

\* c\_optParam.get(age);

}

}

if (totalInvites > maxScreenings){

return 1; //true

}else{

return 0; //false

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753024467819</Id>

<Name><![CDATA[f\_startup]]></Name>

<X>-380</X><Y>60</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[totalPopulationData();

modelInputs();

getvaluesfromoriginalflow();

ds\_covPer.add(20, p\_age20\_24);

ds\_covPer.add(25, p\_age25\_29);

ds\_covPer.add(30, p\_age30\_34);

ds\_covPer.add(35, p\_age35\_39);

ds\_covPer.add(40, p\_age40\_44);

ds\_covPer.add(45, p\_age45\_49);

ds\_covPer.add(50, p\_age50\_54);

ds\_covPer.add(55, p\_age55\_59);

ds\_covPer.add(60, p\_age60\_64);

ds\_covPer.add(65, p\_age65\_69);

ds\_covPer.add(70, p\_age70\_74);

ds\_covPer.add(75, p\_age75\_);

create\_de\_createModel(1, SECOND);// createModel();

]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753025820028</Id>

<Name><![CDATA[totalPopulationData]]></Name>

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<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// POPULATION FROM DATABASES

List<Integer> totalpop = selectFrom(total\_population)

.list(total\_population.population);

int[] arr = totalpop.stream().mapToInt(Integer::intValue)

.toArray();

// Convert int[] to double[]

double[] doubleArr = new double[arr.length];

for (int i = 0; i < arr.length; i++) {

doubleArr[i] = (double) arr[i];

}

// Set the population data

initialPop.set(doubleArr);

/\*------------------------------------------\*/

// AGE PERCENTAGES FROM DATABASES

List<Double> agePercentages = selectFrom(age\_percentages)

.list(age\_percentages.age\_percentage);

// Convert List<Double> to double[]

double[] doubleArr1 = new double[agePercentages.size()];

for (int i = 0; i < agePercentages.size(); i++) {

doubleArr1[i] = agePercentages.get(i);

}

// Set the percentages data

agePercent.set(doubleArr1);

/\*-----------------------------------------\*/

// Retrieve mortality rates from the database

List<Double> mortalityRates = selectFrom(mortality\_rates)

.list(mortality\_rates.mortality\_rate);

// Convert List<Double> to double[] (1D array)

double[] doubleArr2 = new double[mortalityRates.size()];

for (int i = 0; i < mortalityRates.size(); i++) {

doubleArr2[i] = mortalityRates.get(i);

}

// Define dimensions for the HyperArray

int age = 12;

int region = doubleArr2.length + 1;

// Fill the HyperArray with duplicated values

for (int i = 0; i < age; i++) {

for (int j = 0; j <= region; j++) {

mortality\_Rates.set(doubleArr2[i], j, i);

// Correct usage of HyperArray's set method

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753026196190</Id>

<Name><![CDATA[getvaluesfromoriginalflow]]></Name>

<X>-350</X><Y>130</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int region = 0; region < 14; region++) {

for (int ageGroup = 0; ageGroup < 12; ageGroup++) {

double value1 = Stage1Growth.get(region, ageGroup);

double value2 = Stage2Growth.get(region, ageGroup);

double value3 = Stage3Growth.get(region, ageGroup);

double value4 = Stage4Growth.get(region, ageGroup);

double value5 = S1Sus.get(region, ageGroup);

double value6 = S2Sus.get(region, ageGroup);

double value7 = S3Sus.get(region, ageGroup);

double value8 = S4Sus.get(region, ageGroup);

// Loop through TimeSinceScreening dimension

for (int timeSinceScreening = 0; timeSinceScreening < 61; timeSinceScreening++) {

\_Stage1Growth.set(value1, region, ageGroup,

timeSinceScreening);

\_Stage2Growth.set(value2, region, ageGroup,

timeSinceScreening);

\_Stage3Growth.set(value3, region, ageGroup,

timeSinceScreening);

\_Stage4Growth.set(value4, region, ageGroup,

timeSinceScreening);

\_S1Sus.set(value5, region, ageGroup,

timeSinceScreening);

\_S2Sus.set(value6, region, ageGroup,

timeSinceScreening);

\_S3Sus.set(value7, region, ageGroup,

timeSinceScreening);

\_S4Sus.set(value8, region, ageGroup,

timeSinceScreening);

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753026375328</Id>

<Name><![CDATA[modelInputs]]></Name>

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<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[//f\_setNegaticeScreened();

// stage 1 growth FROM DATABASES

List<Double> c2020 = selectFrom(model\_inputs)

.list(model\_inputs.c2020);

List<Integer> initialpop = selectFrom(total\_population)

.list(total\_population.population);

double[] doubleArr3 = new double[c2020.size()];

for (int i = 0; i < c2020.size(); i++) {

doubleArr3[i] = c2020.get(i) / initialpop.get(i);

}

Stage1Growth.set(doubleArr3);

// stage 2 growth FROM DATABASES

List<Double> s1\_g = selectFrom(model\_inputs)

.list(model\_inputs.s1\_g);

double[] doubleArr = new double[s1\_g.size()];

for (int i = 0; i < s1\_g.size(); i++) {

doubleArr[i] = s1\_g.get(i);

}

Stage2Growth.set(doubleArr);

// stage 3 growth FROM DATABASES

List<Double> s2\_g = selectFrom(model\_inputs)

.list(model\_inputs.s2\_g);

double[] doubleArr1 = new double[s2\_g.size()];

for (int i = 0; i < s2\_g.size(); i++) {

doubleArr1[i] = s2\_g.get(i);

}

Stage3Growth.set(doubleArr1);

// stage 4 growth FROM DATABASES

List<Double> s3\_g = selectFrom(model\_inputs)

.list(model\_inputs.s3\_g);

double[] doubleArr2 = new double[s3\_g.size()];

for (int i = 0; i < s3\_g.size(); i++) {

doubleArr2[i] = s3\_g.get(i);

}

Stage4Growth.set(doubleArr2);

// S1sus FROM DATABASES

List<Double> s1\_sus = selectFrom(model\_inputs)

.list(model\_inputs.s1\_sus);

double[] doubleArr4 = new double[s1\_sus.size()];

for (int i = 0; i < s1\_sus.size(); i++) {

doubleArr4[i] = s1\_sus.get(i);// r2r()

}

S1Sus.set(doubleArr4);

// S2sus FROM DATABASES

List<Double> s2\_sus = selectFrom(model\_inputs)

.list(model\_inputs.s2\_sus);

double[] doubleArr5 = new double[s2\_sus.size()];

for (int i = 0; i < s2\_sus.size(); i++) {

doubleArr5[i] = s2\_sus.get(i);// r2r()

}

S2Sus.set(doubleArr5);

// S3sus FROM DATABASES

List<Double> s3\_sus = selectFrom(model\_inputs)

.list(model\_inputs.s3\_sus);

double[] doubleArr6 = new double[s3\_sus.size()];

for (int i = 0; i < s3\_sus.size(); i++) {

doubleArr6[i] = s3\_sus.get(i);// r2r();

}

S3Sus.set(doubleArr6);

// S4sus FROM DATABASES

List<Double> s4\_sus = selectFrom(model\_inputs)

.list(model\_inputs.s4\_sus);

double[] doubleArr6\_ = new double[s4\_sus.size()];

for (int i = 0; i < s4\_sus.size(); i++) {

doubleArr6\_[i] = s4\_sus.get(i);// r2r();

}

S4Sus.set(doubleArr6\_);

// Asymptomatic s1 FROM DATABASES

List<Double> nna1 = selectFrom(model\_inputs)

.list(model\_inputs.nna1);

double[] doubleArr7 = new double[nna1.size()];

for (int i = 0; i < nna1.size(); i++) {

doubleArr7[i] = nna1.get(i);

}

// Set the Asymptomatic s1

s1.set(doubleArr7);

// Asymptomatic s2 FROM DATABASES

List<Double> nna2 = selectFrom(model\_inputs)

.list(model\_inputs.nna2);

double[] doubleArr8 = new double[nna2.size()];

for (int i = 0; i < nna2.size(); i++) {

doubleArr8[i] = nna2.get(i);

}

// Set the Asymptomatic s2

s2.set(doubleArr8);

// Asymptomatic s3 FROM DATABASES

List<Double> nna3 = selectFrom(model\_inputs)

.list(model\_inputs.nna3);

double[] doubleArr9 = new double[nna3.size()];

for (int i = 0; i < nna3.size(); i++) {

doubleArr9[i] = nna3.get(i);

}

// Set the Asymptomatic s3

s3.set(doubleArr9);

// Asymptomatic s4 FROM DATABASES

List<Double> nna4 = selectFrom(model\_inputs)

.list(model\_inputs.nna4);

double[] doubleArr10 = new double[nna4.size()];

for (int i = 0; i < nna4.size(); i++) {

doubleArr10[i] = nna4.get(i);

}

// Set the Asymptomatic s4

s4.set(doubleArr10);

for (int age = 0; age < AgeGroup.size(); age++) {

// f\_getMaxScreenPer(age);

// collection.put(age, 100.0);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753026487680</Id>

<Name><![CDATA[createModel]]></Name>

<X>-350</X><Y>240</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[Model md = new Model();

md.goToPopulation(model);

md.Population.set(initialPop.getData());

//md.initialPop.set(initialPop.getData());

md.agePercent.set( agePercent.getData() );

md.mortality\_Rates.set( mortality\_Rates.getData() );

md.Stage1UnScreened.set( s1.getData() );

md.Stage2UnScreened.set( s2.getData() );

md.Stage3UnScreened.set( s3.getData() );

md.Stage4UnScreened.set( s4.getData() );

md.Stage1Growth.set( Stage1Growth.getData() );

md.Stage2Growth.set( Stage2Growth.getData() );

md.Stage3Growth.set( Stage3Growth.getData() );

md.Stage4Growth.set( Stage4Growth.getData() );

md.S1Sus.set( S1Sus.getData() );

md.S2Sus.set( S2Sus.getData() );

md.S3Sus.set( S3Sus.getData() );

md.S4Sus.set( S4Sus.getData() );

md.s1.set( s1.getData() );

md.s2.set( s2.getData() );

md.s3.set( s3.getData() );

md.s4.set( s4.getData() );

md.\_Stage1Growth.set( \_Stage1Growth.getData() );

md.\_Stage2Growth.set( \_Stage2Growth.getData() );

md.\_Stage3Growth.set( \_Stage3Growth.getData() );

md.\_Stage4Growth.set( \_Stage4Growth.getData() );

md.\_S1Sus.set( \_S1Sus.getData() );

md.\_S2Sus.set( \_S2Sus.getData() );

md.\_S3Sus.set( \_S3Sus.getData() );

md.\_S4Sus.set( \_S4Sus.getData() );

List<Tuple> rows = selectFrom(mamograms).list();

for (Tuple row : rows) {

md.c\_mamograms.put(row.get(mamograms.rank),

row.get(mamograms.no\_of\_mamograms));

}

md.f\_initResourceScreening();

//NEGATIVE SCREENED DATA

List<Double> negScrList = selectFrom(

negavtive\_screened\_2025)

.list(negavtive\_screened\_2025.negative\_screened);

double[] negScrArr = negScrList.stream()

.mapToDouble(Double::doubleValue).toArray();

md.NegtiveScreened.set(negScrArr);

md.set\_isOptimization( isOptimization );

md.set\_p\_TotalKSAMamo( p\_TotalKSAMamo );

//DECISION PARAMETERS

md.set\_p\_age20\_24( p\_age20\_24 );

md.set\_p\_age25\_29( p\_age25\_29 );

md.set\_p\_age30\_34( p\_age30\_34 );

md.set\_p\_age35\_39( p\_age35\_39 );

md.set\_p\_age40\_44( p\_age40\_44 );

md.set\_p\_age45\_49( p\_age45\_49 );

md.set\_p\_age50\_54( p\_age50\_54 );

md.set\_p\_age55\_59( p\_age55\_59 );

md.set\_p\_age60\_64( p\_age60\_64 );

md.set\_p\_age65\_69( p\_age65\_69 );

md.set\_p\_age70\_74( p\_age70\_74 );

md.set\_p\_age75\_( p\_age75\_ );

//CONSTRAINTS

update\_o\_AreThereEnoughMammogramsAvailableforScreenings();

//md.updateinvitesSc();]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753173525494</Id>

<Name><![CDATA[f\_requirement]]></Name>

<X>-750</X><Y>290</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[expName]]></Name>

<Type><![CDATA[String]]></Type>

</Parameter>

<Body><![CDATA[ List<Tuple> rows = selectFrom(mamograms).list();

for (Tuple row : rows) {

c\_mamograms.put(row.get(mamograms.rank),

row.get(mamograms.no\_of\_mamograms));

}

// POPULATION FROM DATABASES

List<Integer> totalpop = selectFrom(total\_population)

.list(total\_population.population);

int[] arr = totalpop.stream().mapToInt(Integer::intValue)

.toArray();

// Convert int[] to double[]

double[] doubleArr = new double[arr.length];

for (int i = 0; i < arr.length; i++) {

doubleArr[i] = (double) arr[i];

}

// Set the population data

initialPop.set(doubleArr);

//Condition fucntion starts here

ArrayList<Boolean> checkList = new ArrayList();

for (int reg = 0; reg < Region.size(); reg++) { //1

double noOfScreeningWeCanDo = c\_mamograms.get(reg)

\* (2880 / 0.75);

double totalScreenings =0.0;

for (int age = 0; age < AgeGroup.size(); age++) {

totalScreenings += (expName.equals("generic") ? c\_optParam.get(age): p\_covRateArr[age])

\* initialPop.get(reg, age);

}

if (totalScreenings < noOfScreeningWeCanDo){

checkList.add(true);

}else{

checkList.add(false);

}

}

for (Boolean value : checkList) {

if (!value) {

return 0; //false

}

}

return 1;//true]]></Body>

</Function>

</Functions>

<AnalysisData>

<DataSet>

<Id>1752734918345</Id>

<Name><![CDATA[ds\_covPer]]></Name>

<X>-750</X><Y>200</Y>

<Label><X>15</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<AutoUpdate>false</AutoUpdate>

<OccurrenceAtTime>true</OccurrenceAtTime>

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<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</RecurrenceCode>

<FreezeXAxis>false</FreezeXAxis>

<SamplesToKeep>100</SamplesToKeep>

</DataSet>

</AnalysisData>

<AgentLinks>

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<Id>1714648423552</Id>

<Name><![CDATA[connections]]></Name>

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import java.util.\*;

import java.util.stream.IntStream;

import java.io.InputStream;

// import java.text.DecimalFormat;

import org.uma.jmetal.experimental.componentbasedalgorithm.catalogue.selection.impl.PopulationAndNeighborhoodMatingPoolSelection;]]></Import>

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// parameter

population\_percentage(); // setting population per to

// parameter

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//combobox1.setEnabled(true);

//combobox2.setEnabled(true);

FageGroup = 0;

LageGroup = 11;

setBaseMachineCount();

setBaseStaffCount();

}

readscreeningtable();]]></StartupCode>

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</Coordinate>

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</CustomExpression>

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Stage2[Region,AgeGroup] +

Stage3[Region,AgeGroup] +

Stage4[Region,AgeGroup]]]></Expression>

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<Name><![CDATA[yearlyPop]]></Name>

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+ S2SurvivalRate \* Stage2.sum()

+ S3SuvivalRate \* Stage3.sum()

+ S4SurvivalRate \* Stage4.sum())

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+ Stage4.sum())]]></Formula>

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Stage1UnScreened[Region,AgeGroup]+

Stage2UnScreened[Region,AgeGroup]+

Stage3UnScreened[Region,AgeGroup]+

Stage4UnScreened[Region,AgeGroup]]]></Expression>

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+ Stage3.sum(0, INDEX\_CAN\_VARY)

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+ yearlyCasesS2[Region,AgeGroup] \* S2SurvivalRate[Region,AgeGroup]

+ yearlyCasesS3[Region,AgeGroup] \* S3SurvivalRate[Region,AgeGroup]

+ yearlyCasesS4[Region,AgeGroup] \* S4SurvivalRate[Region,AgeGroup]

+

\_yearlyCasesS1[Region,AgeGroup] \* S1SurvivalRate[Region,AgeGroup]

+ \_yearlyCasesS2[Region,AgeGroup] \* S2SurvivalRate[Region,AgeGroup]

+ \_yearlyCasesS3[Region,AgeGroup] \* S3SurvivalRate[Region,AgeGroup]

+ \_yearlyCasesS4[Region,AgeGroup] \* S4SurvivalRate[Region,AgeGroup]]]></Expression>

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+ yearlyCasesS2.sum(0, INDEX\_CAN\_VARY)

+ yearlyCasesS3.sum(0, INDEX\_CAN\_VARY)

+ yearlyCasesS4.sum(0, INDEX\_CAN\_VARY)]]></Formula>

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\_Stage3[Region, AgeGroup, TimeSinceScreening] +

\_Stage4[Region, AgeGroup, TimeSinceScreening] ]]></Expression>

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// 25-29

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// 30-34

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// 35-39

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// 40-44

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// 45-49

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// 50-54

4, 3, 3, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0,

// 55-59

6, 4, 4, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0,

// 60-64

6, 4, 4, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0,

// 65-69

4, 3, 3, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0,

// 70-74

4, 3, 3, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0,

// 75+

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6, 4, 4, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, // 30-34

13, 10, 9, 2, 2, 2, 1, 1, 1, 1, 1, 1, 0, // 35-39

21, 15, 14, 4, 3, 3, 2, 2, 1, 1, 1, 1, 0, // 40-44

32, 23, 22, 6, 5, 5, 3, 3, 2, 2, 1, 1, 1, // 45-49

38, 28, 26, 7, 6, 6, 3, 3, 2, 2, 2, 1, 1, // 50-54

47, 35, 33, 9, 8, 7, 4, 4, 3, 3, 2, 2, 1, // 55-59

48, 36, 33, 9, 8, 7, 4, 4, 3, 3, 2, 2, 1, // 60-64

38, 28, 26, 7, 6, 6, 3, 3, 2, 2, 2, 1, 1, // 65-69

32, 23, 22, 6, 5, 5, 3, 3, 2, 2, 1, 1, 1, // 70-74

28, 21, 20, 5, 5, 4, 2, 2, 2, 2, 1, 1, 1 // 75+

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5, 4, 4, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, // 30-34

12, 9, 8, 2, 2, 2, 1, 1, 1, 1, 0, 0, 0, // 35-39

19, 14, 13, 3, 3, 3, 2, 2, 1, 1, 1, 1, 0, // 40-44

29, 21, 20, 5, 5, 4, 2, 2, 2, 1, 1, 1, 1, // 45-49

34, 25, 23, 6, 6, 5, 3, 3, 2, 2, 1, 1, 1, // 50-54

43, 31, 29, 8, 8, 7, 4, 3, 3, 2, 2, 2, 1, // 55-59

44, 32, 30, 8, 8, 7, 4, 4, 3, 2, 2, 2, 1, // 60-64

34, 25, 24, 6, 6, 5, 3, 3, 2, 2, 1, 1, 1, // 65-69

29, 21, 20, 5, 5, 4, 2, 2, 2, 1, 1, 1, 1, // 70-74

26, 19, 18, 5, 5, 4, 2, 2, 2, 1, 1, 1, 0 // 75+

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6, 4, 4, 6, 1, 1, 0, 0, 0, 0, 0, 0, 0, // 35-39

9, 6, 6, 9, 1, 1, 1, 1, 1, 0, 0, 0, 0, // 40-44

13, 10, 9, 14, 2, 2, 1, 1, 1, 1, 1, 0, 0, // 45-49

16, 12, 11, 17, 3, 2, 1, 1, 1, 1, 1, 1, 0, // 50-54

20, 15, 14, 21, 3, 3, 2, 2, 1, 1, 1, 1, 0, // 55-59

20, 15, 14, 22, 3, 3, 2, 2, 1, 1, 1, 1, 0, // 60-64

16, 12, 11, 17, 3, 2, 1, 1, 1, 1, 1, 1, 0, // 65-69

13, 10, 9, 14, 2, 2, 1, 1, 1, 1, 1, 1, 0, // 70-74

12, 9, 8, 13, 2, 2, 1, 1, 1, 1, 0, 0, 0 // 75+

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+\_TotAsymp.sum(Region,0, INDEX\_CAN\_VARY)

)

\*(GrowthRate)]]></Expression>

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:sw\*totalInvite[Region,AgeGroup]\*HRatio[Region,AgeGroup]]]></Expression>

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:Stage1UnScreened[Region,AgeGroup]\*

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: Stage2UnScreened[Region,AgeGroup]\*(S2Sus[Region,AgeGroup])+sw\*totalInvite[Region,AgeGroup]\*S2Ratio[Region,AgeGroup]]]></Expression>

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<ClassName><![CDATA[TimeSinceScreening]]></ClassName>

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"الشرقية", "المدينة المنورة", "الباحة", "الجوف",

"الشمالية", "القصيم", "حايل", "تبوك", "عسير",

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// Kingdom

28.4,

// Riyadh

43.3,

// Makkah

24.9,

// ER

46.2,

// Madinah

23.2,

// Bahah

14.1,

// Jawf

25.2,

// NR

11,

// Qassim

28.1,

// Hail

18.1,

// Tabuk

20.8,

// Asir

13.7,

// Jizan

10.7,

// Najran

13.6,}]]></Code>

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// KSA

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// Riyadh

2371048,

// Makkah

1883204,

// ER

1479122,

// Madinah

658471,

// Bahah

234583,

// Jawf

217432,

// NR

138921,

// Qassim

485109,

// Hail

251192,

// Tabuk

320826,

// Asir

659931,

// Jizan

500937,

// Najran

324309}]]></Code>

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// Riyadh

11.5,

// Makkah

9.11,

// ER

7.22,

// Madinah

9.25,

// Bahah

5.71,

// Jawf

4.76,

// NR

2.27,

// Qassim

4.13,

// Hail

18.75,

// Tabuk

2.04,

// Asir

10.5,

// Jazan

20,

// Najran

8.58}]]></Code>

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// Makkah

0.175,

// ER

0.169,

// Madinah

0.148,

// Bahah

0.099,

// Jawf

0.344,

// NR

0.0964,

// Qassim

0.329,

// Hail

0.114,

// Tabuk

0.087,

// Asir

0.040,

// Jazan

0.076,

// Najran

0.0935}]]></Code>

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new Color(187, 58, 143), new Color(245, 185, 229),

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0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0}]]></Code>

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// 25-29

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

// 30-34

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

// 35-39

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

// 40-44

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

0.996, 0.996, 0.996, 0.996, 0.996, 0.996, 0.996,

// 50-54

0.95, 0.95, 0.95, 0.95, 0.95, 0.95, 0.95, 0.95,

0.95, 0.95, 0.95, 0.95, 0.95, 0.95,

// 55-59

0.95, 0.95, 0.95, 0.95, 0.95, 0.95, 0.95, 0.95,

0.95, 0.95, 0.95, 0.95, 0.95, 0.95,

// 60-64

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// 65-69

0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943,

0.943, 0.943, 0.943, 0.943, 0.943, 0.943, 0.943,

// 70-74

0.933, 0.933, 0.933, 0.933, 0.933, 0.933, 0.933,

0.933, 0.933, 0.933, 0.933, 0.933, 0.933, 0.933,

// 75+

0.933, 0.933, 0.933, 0.933, 0.933, 0.933, 0.933,

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// 25-29

0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97,

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// 30-34

0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97,

0.97, 0.97, 0.97, 0.97, 0.97, 0.97,

// 35-39

0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97,

0.97, 0.97, 0.97, 0.97, 0.97, 0.97,

// 40-44

0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97,

0.97, 0.97, 0.97, 0.97, 0.97, 0.97,

// 45-49

0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97, 0.97,

0.97, 0.97, 0.97, 0.97, 0.97, 0.97,

// 50-54

0.9415, 0.9415, 0.9415, 0.9415, 0.9415, 0.9415,

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// 55-59

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0.9415, 0.9415, 0.9415, 0.9415, 0.9415, 0.9415,

0.9415, 0.9415,

// 60-64

0.925, 0.925, 0.925, 0.925, 0.925, 0.925, 0.925,

0.925, 0.925, 0.925, 0.925, 0.925, 0.925, 0.925,

// 65-69

0.925, 0.925, 0.925, 0.925, 0.925, 0.925, 0.925,

0.925, 0.925, 0.925, 0.925, 0.925, 0.925, 0.925,

// 70-74

0.8515, 0.8515, 0.8515, 0.8515, 0.8515, 0.8515,

0.8515, 0.8515, 0.8515, 0.8515, 0.8515, 0.8515,

0.8515, 0.8515,

// 75+

0.8515, 0.8515, 0.8515, 0.8515, 0.8515, 0.8515,

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// 25-29

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

// 30-34

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

// 35-39

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

// 40-44

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

// 45-49

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

0.774, 0.774, 0.774, 0.774, 0.774, 0.774, 0.774,

// 50-54

0.662, 0.662, 0.662, 0.662, 0.662, 0.662, 0.662,

0.662, 0.662, 0.662, 0.662, 0.662, 0.662, 0.662,

// 55-59

0.662, 0.662, 0.662, 0.662, 0.662, 0.662, 0.662,

0.662, 0.662, 0.662, 0.662, 0.662, 0.662, 0.662,

// 60-64

0.6555, 0.6555, 0.6555, 0.6555, 0.6555, 0.6555,

0.6555, 0.6555, 0.6555, 0.6555, 0.6555, 0.6555,

0.6555, 0.6555,

// 65-69

0.6555, 0.6555, 0.6555, 0.6555, 0.6555, 0.6555,

0.6555, 0.6555, 0.6555, 0.6555, 0.6555, 0.6555,

0.6555, 0.6555,

// 70-74

0.649, 0.649, 0.649, 0.649, 0.649, 0.649, 0.649,

0.649, 0.649, 0.649, 0.649, 0.649, 0.649, 0.649,

// 75+

0.649, 0.649, 0.649, 0.649, 0.649, 0.649, 0.649,

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// 25-29

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0.566, 0.566, 0.566, 0.566, 0.566, 0.566, 0.566,

// 30-34

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0.566, 0.566, 0.566, 0.566, 0.566, 0.566, 0.566,

// 35-39

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// 40-44

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// 45-49

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0.566, 0.566, 0.566, 0.566, 0.566, 0.566, 0.566,

// 50-54

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0.553, 0.553, 0.553, 0.553, 0.553, 0.553, 0.553,

// 55-59

0.553, 0.553, 0.553, 0.553, 0.553, 0.553, 0.553,

0.553, 0.553, 0.553, 0.553, 0.553, 0.553, 0.553,

// 60-64

0.461, 0.461, 0.461, 0.461, 0.461, 0.461, 0.461,

0.461, 0.461, 0.461, 0.461, 0.461, 0.461, 0.461,

// 65-69

0.461, 0.461, 0.461, 0.461, 0.461, 0.461, 0.461,

0.461, 0.461, 0.461, 0.461, 0.461, 0.461, 0.461,

// 70-74

0.381, 0.381, 0.381, 0.381, 0.381, 0.381, 0.381,

0.381, 0.381, 0.381, 0.381, 0.381, 0.381, 0.381,

// 75+

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// 25-29

0.08,

// 30-34

0.06,

// 35-39

0.06,

// 40-44

0.06,

// 45-49

0.06,

// 50-54

0.05,

// 55-59

0.04,

// 60-64

0.04,

// 65-69

0.03,

// 70-74

0.02,

// 75+

0.02}]]></Code>

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// Riyadh

0,

// Makkah

0,

// ER

0,

// Madinah

0,

// Bahah

0,

// Jawf

0,

// NR

0,

// Qassim

0,

// Hail

0,

// Tabuk

0,

// Asir

0,

// Jazan

0,

// Najran

0}

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1,

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// Makkah

0.03824309,

// ER

0.753881106,

// Madinah

0.028776978,

// Bahah

0.007572889,

// Jawf

0.023854601,

// NR

0.013252556,

// Qassim

0.013252556,

// Hail

0.012116622,

// Tabuk

0.015524423,

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// Najran

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// Riyadh

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// Makkah

0.197709942,

// ER

0.155287013,

// Madinah

0.069130197,

// Bahah

0.024627917,

// Jawf

0.022827303,

// NR

0.014584752,

// Qassim

0.050929624,

// Hail

0.026371628,

// Tabuk

0.033682219,

// Asir

0.069283476,

// Jazan

0.052591342,

// Najran

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// Riyadh

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// Makkah

0,

// ER

0,

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0,

// Bahah

0,

// Jawf

0,

// NR

0,

// Qassim

0,

// Hail

0,

// Tabuk

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// Asir

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0.006116208,

// 25-29

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0.006116208,

// 30-34

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// 35-39

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// 75+

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0.0, 0.0, 0.0, 0.0}, // Age Group 3

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 4

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

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{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 7

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 8

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 9

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 10

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 11

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0} // Age Group 12

},

// Region 2

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// Region 3

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// Region 4

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// Region 5

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// Region 6

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// Region 7

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// Region 8

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// Region 9

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// Region 10

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// Region 11

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// Region 12

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// Region 13

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// Region 14

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</CollectionInitializer>

</Properties>

</Variable>

<Variable Class="CollectionVariable">

<Id>1753022986337</Id>

<Name><![CDATA[popBase]]></Name>

<X>-860</X><Y>300</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

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<Variable Class="CollectionVariable">

<Id>1753022986339</Id>

<Name><![CDATA[recBase]]></Name>

<X>-860</X><Y>330</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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<Variable Class="CollectionVariable">

<Id>1753022986341</Id>

<Name><![CDATA[mortBase]]></Name>

<X>-860</X><Y>150</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

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<Id>1753022986345</Id>

<Name><![CDATA[expSurvRate]]></Name>

<X>-860</X><Y>120</Y>

<Label><X>10</X><Y>0</Y></Label>

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<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

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<Id>1753022986347</Id>

<Name><![CDATA[stage2Base]]></Name>

<X>-860</X><Y>210</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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<Id>1753022986349</Id>

<Name><![CDATA[stage3Base]]></Name>

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<Id>1753022986351</Id>

<Name><![CDATA[stage4Base]]></Name>

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<Variable Class="CollectionVariable">

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<Name><![CDATA[prevBase]]></Name>

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<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

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<Variable Class="CollectionVariable">

<Id>1753022986355</Id>

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<PublicFlag>false</PublicFlag>

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</Properties>

</Variable>

<Variable Class="CollectionVariable">

<Id>1753022986357</Id>

<Name><![CDATA[Recoveries\_]]></Name>

<Description><![CDATA[S4SurvivalRate[Region,AgeGroup]\*Stage4[Region,AgeGroup]/S4Recoverytime]]></Description>

<X>-320</X><Y>700</Y>

<Label><X>11</X><Y>4</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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<CollectionInitializer Class="CodeValue">

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// Region 1

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0.0, 0.0, 0.0, 0.0}, // Age Group 2

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 3

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 4

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 5

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 6

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 7

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 8

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 9

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 10

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}, // Age Group 11

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0} // Age Group 12

},

// Region 2

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// Region 3

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// Region 4

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// Region 5

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// Region 6

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// Region 7

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// Region 8

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// Region 9

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// Region 10

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// Region 13

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// Region 14

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// Region 2

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// Region 7

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0.0, 0.0, 0.0, 0.0}},

// Region 8

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0}},

// Region 9

{{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}},

// Region 10

{{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0}},

// Region 11

{{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}},

// Region 12

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}},

// Region 13

{{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}},

// Region 14

{{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

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0.0, 0.0, 0.0, 0.0},

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0},

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0},

{0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,

0.0, 0.0, 0.0, 0.0}},}]]></Code>

</CollectionInitializer>

</Properties>

</Variable>

<Variable Class="CollectionVariable">

<Id>1753022986361</Id>

<Name><![CDATA[c\_StagesStock]]></Name>

<X>-1390</X><Y>630</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[ArrayList]]></CollectionClass>

<ElementClass><![CDATA[HyperArray]]></ElementClass>

<ValueElementClass><![CDATA[String]]></ValueElementClass>

<CollectionInitializer Class="CodeValue">

<Code><![CDATA[{Stage1, Stage2, Stage3, Stage4}]]></Code>

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</Properties>

</Variable>

<Variable Class="CollectionVariable">

<Id>1753022986363</Id>

<Name><![CDATA[c\_parYearlyStageCases]]></Name>

<X>-1390</X><Y>660</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[ArrayList]]></CollectionClass>

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<ValueElementClass><![CDATA[String]]></ValueElementClass>

<CollectionInitializer Class="CodeValue">

<Code><![CDATA[{p\_lastYearStage1Cases, p\_lastYearStage2Cases,

p\_lastYearStage3Cases, p\_lastYearStage4Cases}]]></Code>

</CollectionInitializer>

</Properties>

</Variable>

<Variable Class="CollectionVariable">

<Id>1753022986365</Id>

<Name><![CDATA[c\_ScrPerEditBoxes]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>220</X><Y>-260</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[ArrayList]]></CollectionClass>

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<ValueElementClass><![CDATA[String]]></ValueElementClass>

<CollectionInitializer Class="CodeValue">

<Code><![CDATA[{editbox20, editbox21, editbox22, editbox23, editbox24,

editbox25, editbox26, editbox27, editbox28,

editbox29, editbox30, editbox31}]]></Code>

</CollectionInitializer>

</Properties>

</Variable>

<Variable Class="CollectionVariable">

<Id>1753022986367</Id>

<Name><![CDATA[c\_covRateDefault]]></Name>

<X>10040</X><Y>100</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[ArrayList]]></CollectionClass>

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<ValueElementClass><![CDATA[String]]></ValueElementClass>

<CollectionInitializer Class="CodeValue">

<Code><![CDATA[{0.0, // 20-24

0.0, // 25-29

0.0, // 30-34

0.0, // 35-39

0.121, // 40-44

0.108, // 45-49

0.116, // 50-54

0.109, // 55-59

0.091, // 60-64

0.055, // 65-69

0.0, // 70-74

0.0// 75+

}]]></Code>

</CollectionInitializer>

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</Variable>

<Variable Class="CollectionVariable">

<Id>1753022986369</Id>

<Name><![CDATA[c\_timeMaxAgeGroup]]></Name>

<X>10040</X><Y>60</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[ArrayList]]></CollectionClass>

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<ValueElementClass><![CDATA[String]]></ValueElementClass>

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<Variable Class="CollectionVariable">

<Id>1753022986371</Id>

<Name><![CDATA[c\_SliderResScreening]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>4000</X><Y>1320</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[ArrayList]]></CollectionClass>

<ElementClass><![CDATA[ShapeSlider]]></ElementClass>

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<CollectionInitializer Class="CodeValue">

<Code><![CDATA[{slider1, slider, slider5, slider6, slider7, slider8,

slider9, slider10, slider11, slider12, slider13,

slider14}]]></Code>

</CollectionInitializer>

</Properties>

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<Variable Class="CollectionVariable">

<Id>1753022986373</Id>

<Name><![CDATA[c\_sliderMaxText]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>4000</X><Y>1290</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[ArrayList]]></CollectionClass>

<ElementClass><![CDATA[ShapeText]]></ElementClass>

<ValueElementClass><![CDATA[String]]></ValueElementClass>

<CollectionInitializer Class="CodeValue">

<Code><![CDATA[{text41, text44, text66, text69, text72, text75, text78,

text81, text84, text87, text90, text93}]]></Code>

</CollectionInitializer>

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</Variable>

<Variable Class="CollectionVariable">

<Id>1753022986376</Id>

<Name><![CDATA[c\_mamograms]]></Name>

<X>4000</X><Y>1260</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[LinkedHashMap]]></CollectionClass>

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<ValueElementClass><![CDATA[Integer]]></ValueElementClass>

<CollectionInitializer Class="DatabaseQueryCodeValue">

<Type>SELECT\_LIST\_OF\_VALUES</Type>

<TableReference>

<PackageName><![CDATA[breastcancer15v1]]></PackageName>

<ClassName><![CDATA[mamograms]]></ClassName>

</TableReference>

<ColumnReference>

<PackageName><![CDATA[breastcancer15v1]]></PackageName>

<ClassName><![CDATA[mamograms]]></ClassName>

<ItemName><![CDATA[no\_of\_mamograms]]></ItemName>

</ColumnReference>

</CollectionInitializer>

</Properties>

</Variable>

<Variable Class="CollectionVariable">

<Id>1753022986379</Id>

<Name><![CDATA[c\_oldScreenings]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>4000</X><Y>1350</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[LinkedHashMap]]></CollectionClass>

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<CollectionInitializer Class="DatabaseQueryCodeValue">

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<ClassName><![CDATA[mamograms]]></ClassName>

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<PackageName><![CDATA[breastcancer15v1]]></PackageName>

<ClassName><![CDATA[mamograms]]></ClassName>

<ItemName><![CDATA[no\_of\_mamograms]]></ItemName>

</ColumnReference>

</CollectionInitializer>

</Properties>

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<Variable Class="CollectionVariable">

<Id>1753022986382</Id>

<Name><![CDATA[c\_TotalPerScr]]></Name>

<X>4000</X><Y>1230</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

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<PackageName><![CDATA[breastcancer15v1]]></PackageName>

<ClassName><![CDATA[mamograms]]></ClassName>

</TableReference>

<ColumnReference>

<PackageName><![CDATA[breastcancer15v1]]></PackageName>

<ClassName><![CDATA[mamograms]]></ClassName>

<ItemName><![CDATA[no\_of\_mamograms]]></ItemName>

</ColumnReference>

</CollectionInitializer>

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<Variable Class="CollectionVariable">

<Id>1753022986384</Id>

<Name><![CDATA[c\_ScreeningCost]]></Name>

<X>120</X><Y>2050</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[LinkedHashMap]]></CollectionClass>

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<Id>1753022986386</Id>

<Name><![CDATA[c\_TreatmentCost]]></Name>

<X>120</X><Y>2080</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[LinkedHashMap]]></CollectionClass>

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<Variable Class="CollectionVariable">

<Id>1753022986388</Id>

<Name><![CDATA[c\_optParam]]></Name>

<X>50</X><Y>1080</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties SaveInSnapshot="true" AccessType="public" StaticVariable="false">

<CollectionClass><![CDATA[ArrayList]]></CollectionClass>

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<Link SourceId="1753022987642" TargetId="1753022986330" Polarity="null">

<Height>20.0</Height>

<PolarityPosition>0.95</PolarityPosition>

<Direction><X>-2390</X><Y>1710</Y></Direction>

<Id>1753022988114</Id>

<Name><![CDATA[\_yearlyCases - dv\_deadPeople]]></Name>

<X>1800</X><Y>-730</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<Color/>

<LineWidth>1</LineWidth>

<Delay>false</Delay>

</Link>

<Link SourceId="1753022986304" TargetId="1753022986333" Polarity="null">

<Height>20.0</Height>

<PolarityPosition>0.95</PolarityPosition>

<Direction><X>-40</X><Y>330</Y></Direction>

<Id>1753022988116</Id>

<Name><![CDATA[expectedSur - dv\_noOfPeopleExpectedSur]]></Name>

<X>-550</X><Y>690</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<Color/>

<LineWidth>1</LineWidth>

<Delay>false</Delay>

</Link>

<Link SourceId="1753022987480" TargetId="1753170722648" Polarity="null">

<Height>20.0</Height>

<PolarityPosition>0.95</PolarityPosition>

<Direction><X>-270</X><Y>1060</Y></Direction>

<Id>1753170760371</Id>

<Name><![CDATA[totalInvite - totalScreenings]]></Name>

<X>330</X><Y>-40</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<Color/>

<LineWidth>1</LineWidth>

<Delay>false</Delay>

</Link>

</Dependences>

<Events>

<Event>

<Id>1753022987079</Id>

<Name><![CDATA[yearlyEvent]]></Name>

<X>-320</X><Y>190</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1577865600000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MINUTE]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[// Cost & ASR update functions

yearlyCost();

AgePercUpdate();

// dummy variable - but don't delete it - Testing purpose

if (getYear() > 2025) { // it was 2016 earlier

v\_Year++; // 2021-considered as 0 and go on.,

}

DefaultScreenings();

yearlyCasesUpdate();

ASRupdate();

f\_yearlyCasesForStages();

create\_de\_updateDataExcel(7, DAY);

// SurvRateChange(); test on 04Jan SSN

yearlyCasesfunc();

func();

programCost();]]></Action>

</Event>

<Event>

<Id>1753022987082</Id>

<Name><![CDATA[Screening]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>-320</X><Y>580</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[SECOND]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_SECOND]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1722931200000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[/\*

\* v\_month++;

\*

\* v\_countMonth += (1.0 / 12.0);

\*

\* for (int i = 0; i < ScreenedPop.size(); i++) { // i

\* represents the age group int j = 11; // month

\*

\* // Adjust the index to avoid out-of-bounds error int

\* validIndex = 11; // Since the array has 12 elements,

\* valid indices are 0 to 11

\*

\* // Update Population based on ScreenedPop and CancerFree

\* double setValue = Population.get(i, 0) +

\* ScreenedPop.get(i)[j][validIndex]; // Use validIndex

\* instead of 14 Population.set(setValue, i, 0); // Store

\* the updated value back in Population

\*

\* TotHS = TotHS + CancerFree.get(i, 0); // Ensure two

\* indices are used if CancerFree is 2D

\*

\* // Shift month values in ScreenedPop for each age group

\* while (j > 0) { double valueSwitch = ScreenedPop.get(i)[j

\* - 1][validIndex]; // Shift from the previous month

\* ScreenedPop.get(i)[j][validIndex] = valueSwitch; j -= 1;

\* }

\*

\* // Set the first month's value in ScreenedPop from

\* CancerFree ScreenedPop.get(i)[0][validIndex] =

\* CancerFree.get(i, 0); // Store CancerFree's value for age

\* group i in month 0 CancerFree.set(0.0, i, 0); // Reset

\* CancerFree for age group i with correct indices }

\*

\* //-------------------One fifth value - addition

\* workout--- if (v\_month == 13) { ArrayList<HyperArray>

\* stockList = new ArrayList<HyperArray>();

\* stockList.add(Population);

\* stockList.add(Stage1UnScreened);

\* stockList.add(Stage2UnScreened);

\* stockList.add(Stage3UnScreened); stockList.add(Stage1);

\* stockList.add(Stage2); stockList.add(Stage3);

\* stockList.add(Stage4);

\*

\* for (HyperArray hyArr : stockList) { double[] hus =

\* hyArr.getData(); // Assuming it returns a 1D array

\* double[] oneFifthArr = IntStream.range(0, hus.length)

\* .mapToDouble(i -> hus[i] / 5) .toArray();

\*

\* double[] subOneFifthArr = IntStream.range(0, hus.length)

\* .mapToDouble(i -> hus[i] / 5) .toArray();

\*

\* subOneFifthArr[hus.length - 1] = 0; // Adjust to the last

\* index

\*

\* double[] finArr = new double[hus.length];

\*

\* for (int ind = 0; ind < hus.length; ind++) { finArr[ind]

\* = finArr[ind] + hus[ind] - subOneFifthArr[ind]; if (ind <

\* hus.length - 1) { finArr[ind + 1] = finArr[ind + 1] +

\* subOneFifthArr[ind]; } } hyArr.set(finArr); // Set the

\* updated array back to the HyperArray }

\*

\* v\_month = 1; }

\*/

v\_month++;

v\_countMonth += (1.0 / 12.0);

for (int i = 0; i < 11; i++) { // Loop through 11 age groups

// (index 0 to 10)

int j = 11; // month

int validIndex = 11; // Ensure we stay within bounds

for (int region = 0; region < 13; region++) { // Loop

// through

// 13

// regions

// (index

// 0 to

// 12)

// Update Population based on ScreenedPop and

// CancerFree

double setValue = Population.get(region, i)

+ ScreenedPop.get(i)[j][validIndex]; // Use

// validIndex

// for

// the

// second

// dimension

Population.set(setValue, region, i); // Store the

// updated

// value

// back in

// Population

// for this

// region

// and age

// group

TotHS = TotHS + CancerFree.get(region, i); // Add

// CancerFree's

// value

// for

// the

// region

// and

// age

// group

// to

// TotHS

// Shift month values in ScreenedPop for each age

// group and region

while (j > 0) {

double valueSwitch = ScreenedPop.get(i)[j

- 1][validIndex]; // Shift from the

// previous month

ScreenedPop.get(i)[j][validIndex] = valueSwitch;

j -= 1;

}

// Set the first month's value in ScreenedPop from

// CancerFree for the current region and age group

ScreenedPop.get(i)[0][validIndex] = CancerFree

.get(region, i);

// Reset CancerFree for this region and age group

// after the value is transferred

CancerFree.set(0.0, region, i);

}

}

// -------------------One fifth value - addition workout---

if (v\_month == 13) {

ArrayList<HyperArray> stockList = new ArrayList<HyperArray>();

stockList.add(Population);

stockList.add(Stage1UnScreened);

stockList.add(Stage2UnScreened);

stockList.add(Stage3UnScreened);

stockList.add(Stage1);

stockList.add(Stage2);

stockList.add(Stage3);

stockList.add(Stage4);

for (HyperArray hyArr : stockList) {

for (int region = 0; region < 13; region++) { // Loop

// through

// 13

// regions

for (int ageGroup = 0; ageGroup < 11; ageGroup++) { // Loop

// through

// 11

// age

// groups

// Assuming hyArr.get(region, ageGroup)

// returns a single value (double) for each

// region and age group

double hus = hyArr.get(region, ageGroup); // Access

// value

// using

// (region,

// ageGroup)

// Calculate the one-fifth value

double oneFifth = hus / 5.0;

double subOneFifth = oneFifth;

// Adjust the subtraction for the last

// region if necessary

if (region == 12) {

subOneFifth = 0; // Ensure the last

// region's

// subOneFifth is

// zero

}

double finValue = hus - subOneFifth;

// Set the updated value back into the

// HyperArray for the region and age group

hyArr.set(finValue, region, ageGroup);

// Handle propagation of subOneFifth to the

// next region (if applicable)

if (region < 12) {

double nextRegionValue = hyArr

.get(region + 1, ageGroup); // Access

// the

// next

// region's

// value

hyArr.set(nextRegionValue + subOneFifth,

region + 1, ageGroup);

}

}

}

}

v\_month = 1;

}]]></Action>

</Event>

<Event>

<Id>1753022987085</Id>

<Name><![CDATA[OccursOnce1]]></Name>

<X>-490</X><Y>100</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="occuresOnce">

<Timeout Class="CodeUnitValue">

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<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1717660800000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[0.2]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[//InvitesDefault();]]></Action>

</Event>

<Event>

<Id>1753022987088</Id>

<Name><![CDATA[e\_Screening1\_AgePeopleMovement]]></Name>

<X>-320</X><Y>760</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[SECOND]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_SECOND]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1722931200000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[v\_month++;

v\_countMonth += (1.0 / 12.0);

/\*

\* for (int reg = 0; reg < 14; reg++) { for (int i=0; i <

\* ScreenedPop.get(reg).length ; i++)

\* //ScreenedPop.get(reg).length { //i-age group int j = 11;

\* //month double setValue = Population.get(reg, i) +

\* ScreenedPop.get(reg)[i][11]; Population.set(setValue,

\* reg, i);

\*

\* TotHS = TotHS + CancerFree.get(reg, i);

\*

\* while (j > 0){ double valueSwitch =

\* ScreenedPop.get(reg)[i][j - 1];

\* ScreenedPop.get(reg)[i][j] = valueSwitch; j -= 1; }

\* ScreenedPop.get(reg)[i][0] = CancerFree.get(reg,i);

\* CancerFree.set(0, reg, i); } }

\*/

// -----------next portion

if (v\_month > 0) {

ArrayList<HyperArray> stockList = new ArrayList<HyperArray>();

stockList.add(Population);

stockList.add(Stage1UnScreened);

stockList.add(Stage2UnScreened);

stockList.add(Stage3UnScreened);

stockList.add(Stage4UnScreened);

// stockList.add(Stage1);

// stockList.add(Stage2);

// stockList.add(Stage3);

// stockList.add(Stage4);

// aging implemented for above flow

ArrayList<HyperArray> \_stockList = new ArrayList<HyperArray>();

// \_stockList.add(NegtiveScreened);

// \_stockList.add(\_Stage1UnScreened);

// \_stockList.add(\_Stage2UnScreened);

// \_stockList.add(\_Stage3UnScreened);

// \_stockList.add(\_Stage4UnScreened);

// \_stockList.add(\_Stage1);

// \_stockList.add(\_Stage2);

// \_stockList.add(\_Stage3);

// \_stockList.add(\_Stage4);

for (HyperArray hyArr : stockList) {

for (int reg = 0; reg < 14; reg++) {

double[] hus = new double[12];

for (int age = 0; age < 12; age++) {

hus[age] = hyArr.get(reg, age);

}

double[] oneFifthArr = IntStream.range(0, 12)

.mapToDouble(i -> hus[i] / 60.)

.toArray();

double[] finArr = new double[12];

for (int ind = 1; ind < hus.length - 1; ind++) {

finArr[ind] = hus[ind] - oneFifthArr[ind]

+ oneFifthArr[ind - 1];

}

finArr[0] = 59. / 60. \* hus[0];

finArr[hus.length - 1] = hus[hus.length - 1]

+ oneFifthArr[hus.length - 2];

for (int ageGroup = 0; ageGroup < 12; ageGroup++) {

hyArr.set(finArr[ageGroup], reg, ageGroup);

}

}

}

// f\_ageMovementNegativeFlow(\_stockList);

v\_month = 1;

}]]></Action>

</Event>

<Event>

<Id>1753022987091</Id>

<Name><![CDATA[e\_tempPipeLine]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>330</X><Y>660</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1733904000000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[0]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[double[] s1 = Stage1.getData();

st\_tempStage1.set(s1);

double[] s2 = Stage2.getData();

st\_tempStage2.set(s2);

double[] s3 = Stage3.getData();

st\_tempStage3.set(s3);

double[] s4 = Stage4.getData();

st\_tempStage4.set(s4);

]]></Action>

</Event>

<Event>

<Id>1753022987094</Id>

<Name><![CDATA[eventMoveCancerFree]]></Name>

<X>570</X><Y>-340</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1737014400000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[0]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[/\*

\* \_totalInvite = totalInvite; \_mortality\_Rates =

\* mortality\_Rates; \_Stage1Growth = Stage1Growth;

\* \_Stage2Growth = Stage2Growth; \_Stage3Growth =

\* Stage3Growth; \_Stage4Growth = Stage4Growth; \_S1Sus =

\* S1Sus; \_S2Sus = S2Sus; \_S3Sus = S3Sus; \_S4Sus = S4Sus;

\*/

agingFunction();

getHealthyScreened();

]]></Action>

</Event>

<Event>

<Id>1753022987097</Id>

<Name><![CDATA[eventAging]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>570</X><Y>-280</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1737014400000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[agingFunction();]]></Action>

</Event>

<Event>

<Id>1753022987100</Id>

<Name><![CDATA[eventMoveToOrginalFlow]]></Name>

<X>580</X><Y>-240</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1737014400000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[0]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[MONTH]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[if (getYear() >= 2024) {

timemax = v\_timeMaxAfter2023 \* 12;

}

movingCases();]]></Action>

</Event>

<Event>

<Id>1753022987103</Id>

<Name><![CDATA[e\_output]]></Name>

<X>-240</X><Y>540</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1737532800000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[1.1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[// Scneraios file

sc\_getoutputs();

if (getYear() == 2031){

sc\_writeoutput();

}]]></Action>

</Event>

<Event>

<Id>1753022987106</Id>

<Name><![CDATA[event1]]></Name>

<X>570</X><Y>-380</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1738051200000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[0.01]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[// update Invite values

updateinvitesSc();

if (getYear() != 2016) {

sc\_year[roundToInt(time())] = String

.valueOf(getYear() - 1);

sc\_totalScreening[roundToInt(time())] = totalInvite

.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY) - totalInvite

.sum(0, INDEX\_CAN\_VARY);

}]]></Action>

</Event>

<Event>

<Id>1753022987109</Id>

<Name><![CDATA[event2]]></Name>

<X>280</X><Y>-320</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="occuresOnce">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1738396800000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[0]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[//pauseSimulation();]]></Action>

</Event>

<Event>

<Id>1753022987112</Id>

<Name><![CDATA[event3]]></Name>

<X>-400</X><Y>1100</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Properties TriggerType="timeout" Mode="cyclic">

<Timeout Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</Timeout>

<Rate Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="RateUnits"><![CDATA[PER\_YEAR]]></Unit>

</Rate>

<OccurrenceAtTime>true</OccurrenceAtTime>

<OccurrenceDate>1747641600000</OccurrenceDate>

<OccurrenceTime Class="CodeUnitValue">

<Code><![CDATA[1.05]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</OccurrenceTime>

<RecurrenceCode Class="CodeUnitValue">

<Code><![CDATA[1]]></Code>

<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

</RecurrenceCode>

<Condition><![CDATA[false]]></Condition>

</Properties>

<Action><![CDATA[set\_p\_lifeExpectancy(f\_calculatingLifeExpectancy());

ds\_LifeExp.add(p\_lifeExpectancy);]]></Action>

</Event>

</Events>

<DynamicEvents>

<DynamicEventClass>

<Id>1753022987072</Id>

<Name><![CDATA[de\_updateDataExcel]]></Name>

<X>-320</X><Y>250</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Action><![CDATA[if (p\_isBaseLineRun && getYear() > 2025) {

convert();

}

expectedSurvivalRate();

savedlifes();]]></Action>

</DynamicEventClass>

</DynamicEvents>

<Functions>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986390</Id>

<Name><![CDATA[totalPopulationData]]></Name>

<X>-310</X><Y>500</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// POPULATION FROM DATABASES

List<Integer> totalpop = selectFrom(total\_population)

.list(total\_population.population);

int[] arr = totalpop.stream().mapToInt(Integer::intValue)

.toArray();

// Convert int[] to double[]

double[] doubleArr = new double[arr.length];

for (int i = 0; i < arr.length; i++) {

doubleArr[i] = (double) arr[i];

}

// Set the population data

initialPop.set(doubleArr);

/\*------------------------------------------\*/

// AGE PERCENTAGES FROM DATABASES

List<Double> agePercentages = selectFrom(age\_percentages)

.list(age\_percentages.age\_percentage);

// Convert List<Double> to double[]

double[] doubleArr1 = new double[agePercentages.size()];

for (int i = 0; i < agePercentages.size(); i++) {

doubleArr1[i] = agePercentages.get(i);

}

// Set the percentages data

agePercent.set(doubleArr1);

/\*-----------------------------------------\*/

// Retrieve mortality rates from the database

List<Double> mortalityRates = selectFrom(mortality\_rates)

.list(mortality\_rates.mortality\_rate);

// Convert List<Double> to double[] (1D array)

double[] doubleArr2 = new double[mortalityRates.size()];

for (int i = 0; i < mortalityRates.size(); i++) {

doubleArr2[i] = mortalityRates.get(i);

}

// Define dimensions for the HyperArray

int age = 12;

int region = doubleArr2.length + 1;

// Fill the HyperArray with duplicated values

for (int i = 0; i < age; i++) {

for (int j = 0; j <= region; j++) {

mortality\_Rates.set(doubleArr2[i], j, i);

// Correct usage of HyperArray's set method

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986392</Id>

<Name><![CDATA[AIRupdate]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>-500</X><Y>530</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionSize = 14;

int ageGroupSize = 12;

for (int region = 0; region < regionSize; region++) {

for (int ageGroup = 0; ageGroup < ageGroupSize; ageGroup++) {

double population = HealthyScreened.get(region,

ageGroup);

double breastCancerCases = IncidenceRate.get(region,

ageGroup);

AIR.set(((breastCancerCases / population)), region,

ageGroup);

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986394</Id>

<Name><![CDATA[getSelectedPopulation]]></Name>

<X>120</X><Y>1400</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int countLoop = 11;

int start = 0;

/\*

if (chooseAge.isSelected()) {

countLoop = combobox2.getValueIndex();

start = combobox1.getValueIndex();

}\*/

int Pop = 0;

for (int i = start; i <= countLoop; i++) {

Pop += (int) Population.get(RegionNumber, i);

}

// invMax = Pop;

empmax = Pop \* 0.001;

machMax = Pop \* 0.001;

definvitations = Pop \* 0.03;

tempText = Pop \* 0.02;

return Pop;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986396</Id>

<Name><![CDATA[getRegionPopulation]]></Name>

<X>120</X><Y>1380</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionIndex = 0;

int countLoop = 11;

int start = 0;

int Pop = 0;

/\*

\* if (RegionNumber == 0) { Pop = (int)kingpop(); return

\* Pop; }

\*

\* else {

\*/

for (int i = start; i <= countLoop; i++) {

Pop += (int) Population.get(RegionNumber, i);

}

return Pop;

// }]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986398</Id>

<Name><![CDATA[accepted]]></Name>

<X>120</X><Y>1350</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// return VistsSlider.getValue() \* (slider1.getValue()/100);

return 0.0;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986400</Id>

<Name><![CDATA[yearlyCasesUpdate]]></Name>

<X>-880</X><Y>590</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionSize = 14;

int ageGroupSize = 12;

for (int region = 0; region < regionSize; region++) {

for (int ageGr = 0; ageGr < ageGroupSize; ageGr++) {

double currentCases = BreastCancerCases.get(region,

ageGr);

double previousCases = previousYearCases.get(region,

ageGr);

double currentCases\_S1 = stage1Cases.get(region,

ageGr);

double previousCases\_S1 = previousYearCasesS1

.get(region, ageGr);

double currentCases\_S2 = stage2Cases.get(region,

ageGr);

double previousCases\_S2 = previousYearCasesS2

.get(region, ageGr);

double currentCases\_S3 = stage3Cases.get(region,

ageGr);

double previousCases\_S3 = previousYearCasesS3

.get(region, ageGr);

double currentCases\_S4 = stage4Cases.get(region,

ageGr);

double previousCases\_S4 = previousYearCasesS4

.get(region, ageGr);

// negative pop flow;

double \_currentCases = \_BreastCancerCases

.sum(region, ageGr, INDEX\_CAN\_VARY);

double \_previousCases = \_previousYearCases

.get(region, ageGr);

double \_currentCases\_S1 = \_Stage1.sum(region, ageGr,

INDEX\_CAN\_VARY);

double \_previousCases\_S1 = \_previousYearCasesS1

.get(region, ageGr);

double \_currentCases\_S2 = \_Stage2.sum(region, ageGr,

INDEX\_CAN\_VARY);

double \_previousCases\_S2 = \_previousYearCasesS2

.get(region, ageGr);

double \_currentCases\_S3 = \_Stage3.sum(region, ageGr,

INDEX\_CAN\_VARY);

double \_previousCases\_S3 = \_previousYearCasesS3

.get(region, ageGr);

double \_currentCases\_S4 = \_Stage4.sum(region, ageGr,

INDEX\_CAN\_VARY);

double \_previousCases\_S4 = \_previousYearCasesS4

.get(region, ageGr);

// Calculate the new cases for this year

double newCases1 = currentCases - previousCases;

double stage1\_newcases = currentCases\_S1

- previousCases\_S1;

double stage2\_newcases = currentCases\_S2

- previousCases\_S2;

double stage3\_newcases = currentCases\_S3

- previousCases\_S3;

double stage4\_newcases = currentCases\_S4

- previousCases\_S4;

// negative pop flow;

double \_newCases1 = \_currentCases - \_previousCases;

double \_stage1\_newcases = \_currentCases\_S1

- \_previousCases\_S1;

double \_stage2\_newcases = \_currentCases\_S2

- \_previousCases\_S2;

double \_stage3\_newcases = \_currentCases\_S3

- \_previousCases\_S3;

double \_stage4\_newcases = \_currentCases\_S4

- \_previousCases\_S4;

// Update the yearlyCases hyperarray with the new

// cases

yearlyCases.set(newCases1, region, ageGr);

yearlyCasesS1.set(stage1\_newcases, region, ageGr);

yearlyCasesS2.set(stage2\_newcases, region, ageGr);

yearlyCasesS3.set(stage3\_newcases, region, ageGr);

yearlyCasesS4.set(stage4\_newcases, region, ageGr);

// negative pop flow;

\_yearlyCases.set(\_newCases1, region, ageGr);

\_yearlyCasesS1.set(\_stage1\_newcases, region, ageGr);

\_yearlyCasesS2.set(\_stage2\_newcases, region, ageGr);

\_yearlyCasesS3.set(\_stage3\_newcases, region, ageGr);

\_yearlyCasesS4.set(\_stage4\_newcases, region, ageGr);

// Update the previousYearCases with the current

// values for the next year's calculation

previousYearCases.set(currentCases, region, ageGr);

previousYearCasesS1.set(currentCases\_S1, region,

ageGr);

previousYearCasesS2.set(currentCases\_S2, region,

ageGr);

previousYearCasesS3.set(currentCases\_S3, region,

ageGr);

previousYearCasesS4.set(currentCases\_S4, region,

ageGr);

// negative pop flow

\_previousYearCases.set(\_currentCases, region,

ageGr);

\_previousYearCasesS1.set(\_currentCases\_S1, region,

ageGr);

\_previousYearCasesS2.set(\_currentCases\_S2, region,

ageGr);

\_previousYearCasesS3.set(\_currentCases\_S3, region,

ageGr);

\_previousYearCasesS4.set(\_currentCases\_S4, region,

ageGr);

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986402</Id>

<Name><![CDATA[regionColors]]></Name>

<X>120</X><Y>1460</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[//kingdomtext();

Regions();]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[String]]></ReturnType>

<Id>1753022986404</Id>

<Name><![CDATA[combodefault]]></Name>

<X>460</X><Y>2220</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[return regionNames[RegionNumber];]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[String]]></ReturnType>

<Id>1753022986406</Id>

<Name><![CDATA[turnNumbers]]></Name>

<X>460</X><Y>2300</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[value]]></Name>

<Type><![CDATA[double]]></Type>

</Parameter>

<Body><![CDATA[String numberString = String.format("%f", value);

double number = Double

.parseDouble(numberString.replace(",", ""));

int magnitude = 0;

final String[] suffixes = {"", "K", "M", "B", "T"};

while (Math.abs(number) >= 1000) {

magnitude++;

number /= 1000;

}

return String.format("%.1f%s", number, suffixes[magnitude]);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986408</Id>

<Name><![CDATA[setSummeryComboBox]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>460</X><Y>2320</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int start = StartYear.getIntValue();

// traceln(start);

int end = EndYear.getIntValue();

// traceln(end);

int len = ((end - start) + 1);

String[] items = new String[len];

int j = 0;

for (int i = start; i <= end; i++) {

items[j] = String.valueOf(i);

j++;

}

// SummeryComboBox.setItems(items);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986410</Id>

<Name><![CDATA[staffCost]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>860</X><Y>1800</Y>

<Label><X>20</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionIndex = combobox4.getValueIndex();

int countLoop = abs(combobox1.getValueIndex()

- combobox2.getValueIndex());

int start = combobox1.getValueIndex();

double totalCostStaff = 0.0;

for (int i = start; i <= countLoop; i++) {

// vistCasesIncrease.set(newCases, regionIndex,i);

totalCostStaff += staff.get(regionIndex, i);

// function1();

}

return totalCostStaff;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986412</Id>

<Name><![CDATA[getSelectedCases]]></Name>

<X>120</X><Y>1520</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionIndex = combobox5.getValueIndex();

int countLoop = 11;

int start = 0;

// if(chooseAge.isSelected()){

// countLoop = abs(combobox2.getValueIndex() -

// combobox2.getValueIndex());

// start = combobox1.getValueIndex();

// }

int Cancer = 0;

for (int i = start; i <= countLoop; i++) {

Cancer += (int) BreastCancerCases.get(RegionNumber, i);

}

return Cancer;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986414</Id>

<Name><![CDATA[population\_percentage]]></Name>

<X>120</X><Y>1560</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// SAUDI PERCENTAGES FROM DATABASES

List<Double> percSaudi = selectFrom(percentages)

.where(percentages.is\_saudi.eq(1))

.list(percentages.percentage);

double[] arr = percSaudi.stream()

.mapToDouble(Double::doubleValue).toArray();

totalperc\_Saudi = arr;

// NON SAUDI PERCENTAGES FROM DATABASES

List<Double> percNonSaudi = selectFrom(percentages)

.where(percentages.is\_saudi.eq(0))

.list(percentages.percentage);

double[] arr1 = percNonSaudi.stream()

.mapToDouble(Double::doubleValue).toArray();

totalperc\_NonSaudi = arr1;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986416</Id>

<Name><![CDATA[defaultStaff]]></Name>

<X>120</X><Y>1580</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[return CurrentStaff;

/\*

\* double acc = accepted(); int def = (int) acc/13;

\*

\* return def;

\*

\* /\* 8hours x 60minute = 480 minutes work 35minutes of

\* screening 480/35 = 13.7 ~= 13

\*/]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986418</Id>

<Name><![CDATA[defaultMachines]]></Name>

<X>120</X><Y>1605</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[return CurrentMachine;

/\*

\* int staffs = (int) defaultStaff(); int machines =

\* staffs/3; return machines;

\*

\* /\* 24h total hour shifts 8h shift per staff 24/8 = 3

\* staff per machine

\*/]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986420</Id>

<Name><![CDATA[defaultDocs]]></Name>

<X>120</X><Y>1635</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[

return CurrentDoc;

/\*

\* int patients = (int) tempText;

\* //(BreastCancerCases.sum(RegionNumber,INDEX\_CAN\_VARY));

\* int doctors = patients/333; return doctors;

\*

\* /\* 30 doc per 10,000 patient 10,000/30 = 333 patient per

\* doctor according to World Health Organization

\*/]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986422</Id>

<Name><![CDATA[defaultNurses]]></Name>

<X>120</X><Y>1655</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[return CurrentNurse;

/\*

\* int doctors = VistsSlider1.getIntValue(); //doctors int

\* nurses = doctors \* 2;

\*

\* return nurses;

\*

\* // 2 Nurses per 1 Doctor

\*/]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986424</Id>

<Name><![CDATA[defaultEmpCost]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>120</X><Y>1675</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int emp = slider2.getIntValue(); // doctors

int cost = emp \* 10000;

empCost = cost;

// 10k per employee]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986426</Id>

<Name><![CDATA[FTEdefault]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>120</X><Y>1700</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[return (int) Math.ceil(accepted() \* Service\_Time / 60

/ Work\_Days / staffCost());]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986428</Id>

<Name><![CDATA[setBaseVistsIncrease]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>-1270</X><Y>390</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[/\*

\* double[] InitPop = new double [14];

\*

\* for(int i=0; i<14; i++){ InitPop[i] =

\* population[i]/population[0]; InitPop[i] \*= invCount;

\* //traceln(InitPop[i]); }

\*

\* for(int i=0; i<14; i++){ for(int j=0; j<12; j++){ double

\* val = (InitPop[i]/12)\*acceptancePercentage;

\* VisitsAccepted.set(val,i,j);

\* vistCasesIncrease3.set(val,i,j); } }

\*/

for (int i = 0; i < 14; i++) {

for (int j = 0; j < 12; j++) {

VisitsAccepted.set(screening\_base2020.get(i, j), i,

j); // Set the value in VisitsAccepted using

// screening\_base values

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986430</Id>

<Name><![CDATA[defaultBed]]></Name>

<X>290</X><Y>1670</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[return CurrentBed;

/\*

\* int doctors = VistsSlider1.getIntValue(); //doctors int

\* nurses = doctors \* 2;

\*

\* return nurses;

\*

\* // 2 Nurses per 1 Doctor

\*/]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986432</Id>

<Name><![CDATA[kingdomtext]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>260</X><Y>1460</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// riyadh

if (RegionNumber == 1) {

regionImage3.setVisible(true);

regionImage3.setIndex(0);

}

else if (RegionNumber == 2) {

regionImage3.setVisible(true);

regionImage3.setIndex(1);

}

else if (RegionNumber == 3) {

regionImage3.setVisible(true);

regionImage3.setIndex(2);

}

else if (RegionNumber == 4) {

regionImage3.setVisible(true);

regionImage3.setIndex(3);

}

else if (RegionNumber == 5) {

regionImage3.setVisible(true);

regionImage3.setIndex(5);

}

else if (RegionNumber == 6) {

regionImage3.setVisible(true);

regionImage3.setIndex(5);

}

else if (RegionNumber == 7) {

regionImage3.setVisible(true);

regionImage3.setIndex(6);

}

else if (RegionNumber == 8) {

regionImage3.setVisible(true);

regionImage3.setIndex(7);

}

else if (RegionNumber == 9) {

regionImage3.setVisible(true);

regionImage3.setIndex(8);

}

else if (RegionNumber == 10) {

regionImage3.setVisible(true);

regionImage3.setIndex(9);

}

else if (RegionNumber == 11) {

regionImage3.setVisible(true);

regionImage3.setIndex(9);

}

else if (RegionNumber == 12) {

regionImage3.setVisible(true);

regionImage3.setIndex(11);

}

else if (RegionNumber == 13) {

regionImage3.setVisible(true);

regionImage3.setIndex(11);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[HyperArray]]></ReturnType>

<Id>1753022986434</Id>

<Name><![CDATA[AgePercUpdate]]></Name>

<X>-290</X><Y>430</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[

if (predefinedAgePercentage == true) {

// Step 2: Calculate the percentage for each region and

// age group based on the grand total

for (int age = 0; age <= 11; age++) {

for (int reg = 0; reg <= 13; reg++) {

// Calculate percentage based on grand total

agePercent.set(sc\_inputs[age] / 100.0, reg,

age); // Update the agePercent\_ array

// with the new percentage

}

}

}

else {

// Initialize grand total population for all regions and

// age groups

double grandTotalPopulation = 0.0;

// Step 1: Calculate the grand total population across

// all regions and age groups

for (int age = 0; age <= 11; age++) {

for (int reg = 1; reg <= 13; reg++) {

grandTotalPopulation += Population.get(reg,

age);

}

}

// Step 2: Calculate the percentage for each region and

// age group based on the grand total

for (int age = 0; age <= 11; age++) {

for (int reg = 1; reg <= 13; reg++) {

double regionPopulation = Population.get(reg,

age);

double newPercentage = regionPopulation

/ grandTotalPopulation; // Calculate

// percentage

// based on

// grand total

agePercent.set(newPercentage, reg, age); // Update

// the

// agePercent\_

// array

// with

// the

// new

// percentage

}

}

// Step 3: Calculate the total percentage for the

// kingdom in each age group

for (int age = 0; age <= 11; age++) {

double kingdomTotalPercentage = 0.0;

for (int reg = 1; reg <= 13; reg++) {

kingdomTotalPercentage += agePercent.get(reg,

age);

}

agePercent.set(kingdomTotalPercentage, 0, age); // Update

// the

// kingdom's

// percentage

// for

// each

// age

// group

}

}

// Return the updated agePercent\_ after processing all

// regions and age groups

return agePercent;

// --------------------------------------------------------------------------------------------------------------

/\*

\* for (int age = 0; age <= 12; age++) { double

\* totalPopulation = Population.get(0, age); // Total

\* population for the kingdom for this age group

\*

\*

\* for (int reg = 1; reg <= 13; reg++) { double

\* regionPopulation = Population.get(reg, age); //

\* Population for this region and age group

\*

\*

\* double newPercentage = regionPopulation /

\* totalPopulation; // New percentage for the region

\*

\*

\* agePercent\_.set(newPercentage, reg, age);

\*

\* return agePercent\_; } }return agePercent\_;

\*/]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986436</Id>

<Name><![CDATA[ASRupdate]]></Name>

<X>80</X><Y>810</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionSize = 14;

int ageGroupSize = 12;

for (int region = 0; region < regionSize; region++) {

for (int ageGroup = 0; ageGroup < ageGroupSize; ageGroup++) {

double breastCancerCases = yearlyCases.get(region,

ageGroup);

double population = Population.get(region,

ageGroup);

ASR.set(((breastCancerCases / population

\* StandardPopulation[ageGroup] \* 100000)),

region, ageGroup);

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[String]]></ReturnType>

<Id>1753022986438</Id>

<Name><![CDATA[Regions]]></Name>

<X>400</X><Y>2500</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[if (RegionNumber == 0) {

RegionName = "Kingdom";

}

else if (RegionNumber == 1) {

RegionName = "Riyadh";

}

else if (RegionNumber == 2) {

RegionName = "Makkah";

}

else if (RegionNumber == 3) {

RegionName = "ER";

}

else if (RegionNumber == 4) {

RegionName = "Madinah";

}

else if (RegionNumber == 5) {

RegionName = "Bahah";

}

else if (RegionNumber == 6) {

RegionName = "Jawf";

}

else if (RegionNumber == 7) {

RegionName = "NR";

}

else if (RegionNumber == 8) {

RegionName = "Qassim";

}

else if (RegionNumber == 9) {

RegionName = "Hail";

}

else if (RegionNumber == 10) {

RegionName = "Tabuk";

}

else if (RegionNumber == 11) {

RegionName = "Asir";

}

else if (RegionNumber == 12) {

RegionName = "Jazan";

}

else if (RegionNumber == 13) {

RegionName = "Najran";

}]]></Body>

</Function>

<Function AccessType="public" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[String]]></ReturnType>

<Id>1753022986440</Id>

<Name><![CDATA[runPop]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>-490</X><Y>160</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[return +YearValue + "|" + "Population: " + popBase + "|"

+ "Breast Cancer Case: " + casBase + '\n'

+ "Stage 1 Cases: " + stage1Base + '\n'

+ "Stage 2 Cases: " + stage2Base + '\n'

+ "Stage 3 Cases: " + stage3Base + '\n'

+ "Stage 4 Cases: " + stage4Base + '\n'

+ "Recoveries: " + recBase + '\n'

+ "Breast Cancer Mortalities: " + mortBase + '\n'

+ "Prevalence: " + prevBase + '\n'

+ "Expected Survival Rate: " + expSurvRate + '\n';]]></Body>

</Function>

<Function AccessType="public" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[String]]></ReturnType>

<Id>1753022986442</Id>

<Name><![CDATA[saveBase]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>-490</X><Y>190</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int tim\_ = 1;// (int) time();

String loc = "A" + tim\_;

converA2l(); // Convert all KPI from Arrays to List

// savetoExcel.setCellValue(runPop(), loc);

]]></Body>

</Function>

<Function AccessType="public" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[String]]></ReturnType>

<Id>1753022986444</Id>

<Name><![CDATA[convert]]></Name>

<X>-290</X><Y>350</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// Saving by region and age group

for (int i = 0; i < Region.size(); i++) {

for (int j = 0; j < AgeGroup.size(); j++) {

savetoExcel.setCellValue(Region.getIndexName(i),

"Base", xl\_index, 1);

savetoExcel.setCellValue(AgeGroup.getIndexName(j),

"Base", xl\_index, 2);

savetoExcel.setCellValue(getYear() - 1, "Base",

xl\_index, 3);

savetoExcel.setCellValue(Population.get(i, j),

"Base", xl\_index, 4);

savetoExcel.setCellValue(yearlyCases.get(i, j),

"Base", xl\_index, 5);

savetoExcel.setCellValue(expectedSur.get(i, j),

"Base", xl\_index, 6);

savetoExcel.setCellValue(

yearlyCases.get(i, j)

- expectedSur.get(i, j),

"Base", xl\_index, 7);

savetoExcel.setCellValue(yearlyCasesS1.get(i, j),

"Base", xl\_index, 8); // p\_lastYearStage1Cases

savetoExcel.setCellValue(yearlyCasesS2.get(i, j),

"Base", xl\_index, 9);

savetoExcel.setCellValue(yearlyCasesS3.get(i, j),

"Base", xl\_index, 10);

savetoExcel.setCellValue(yearlyCasesS4.get(i, j),

"Base", xl\_index, 11);

savetoExcel.setCellValue(yearlyCases.get(i, j),

"Base", xl\_index, 12);

savetoExcel.setCellValue(prevalence.get(i, j),

"Base", xl\_index, 13);

savetoExcel.setCellValue(OtherMortalities.get(i, j),

"Base", xl\_index, 14);

savetoExcel.setCellValue(

ExpectedSurvivalRate.get(i, j), "Base",

xl\_index, 15);

savetoExcel.setCellValue(AIR.get(i, j), "Base",

xl\_index, 16);

savetoExcel.setCellValue(ASR.get(i, j), "Base",

xl\_index, 17);

xl\_index++;

}

}

// Saving by region only

for (int i = 0; i < Region.size(); i++) {

double totalPopulation = 0;

double totalBreastCancerCases = 0;

double totalRecoveries = 0;

double totalCancerMortalities = 0;

double totalStage1 = 0;

double totalStage2 = 0;

double totalStage3 = 0;

double totalStage4 = 0;

double YearlyCases = 0;

double Prevalence = 0;

double TotalMortalities = 0;

double cumASR = 0;

double case\_fatality\_rate = 0;

for (int j = 0; j < AgeGroup.size(); j++) {

totalPopulation += Population.get(i, j);

totalBreastCancerCases += yearlyCases.get(i, j);

totalRecoveries += expectedSur.get(i, j);

totalCancerMortalities += (yearlyCases.get(i, j)

- expectedSur.get(i, j));

totalStage1 += yearlyCasesS1.get(i, j);

totalStage2 += yearlyCasesS2.get(i, j);

totalStage3 += yearlyCasesS3.get(i, j);

totalStage4 += yearlyCasesS4.get(i, j);

YearlyCases += yearlyCases.get(i, j);

Prevalence += prevalence.get(i, j);

TotalMortalities += totalMortalities.get(i, j);

cumASR += ASR.get(i, j);

}

case\_fatality\_rate = totalCancerMortalities \* 100.

/ totalBreastCancerCases;

savetoExcel.setCellValue(Region.getIndexName(i), "Base",

xl\_index, 1);

savetoExcel.setCellValue("All Ages", "Base", xl\_index,

2); // Indicating all age groups aggregated

savetoExcel.setCellValue(getYear() - 1, "Base",

xl\_index, 3);

savetoExcel.setCellValue(totalPopulation, "Base",

xl\_index, 4);

savetoExcel.setCellValue(totalBreastCancerCases, "Base",

xl\_index, 5);

savetoExcel.setCellValue(totalRecoveries, "Base",

xl\_index, 6);

savetoExcel.setCellValue(totalCancerMortalities, "Base",

xl\_index, 7);

savetoExcel.setCellValue(totalStage1, "Base", xl\_index,

8);

savetoExcel.setCellValue(totalStage2, "Base", xl\_index,

9);

savetoExcel.setCellValue(totalStage3, "Base", xl\_index,

10);

savetoExcel.setCellValue(totalStage4, "Base", xl\_index,

11);

savetoExcel.setCellValue(YearlyCases, "Base", xl\_index,

12);

savetoExcel.setCellValue(Prevalence, "Base", xl\_index,

13);

savetoExcel.setCellValue(TotalMortalities, "Base",

xl\_index, 14);

// SurRateKingdom

savetoExcel.setCellValue(cumASR, "Base", xl\_index, 17);

savetoExcel.setCellValue(case\_fatality\_rate, "Base",

xl\_index, 18);

xl\_index++;

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[long]]></ReturnType>

<Id>1753022986446</Id>

<Name><![CDATA[treatmentCost]]></Name>

<X>1000</X><Y>2740</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int reg=1; reg < Region.size(); reg++){

c\_TreatmentCost.put(reg, roundToInt(

(yearlyCasesS1.sum(reg, INDEX\_CAN\_VARY) \* Stage1Cost)+

(yearlyCasesS2.sum(reg, INDEX\_CAN\_VARY) \* Stage2Cost)+

(yearlyCasesS3.sum(reg, INDEX\_CAN\_VARY) \* Stage3Cost)+

(yearlyCasesS4.sum(reg, INDEX\_CAN\_VARY) \* Stage4Cost)

) );

}

long treatment\_cost = roundToInt(

(yearlyCasesS1.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)

-yearlyCasesS1.sum(0, INDEX\_CAN\_VARY) ) \* Stage1Cost +

(yearlyCasesS2.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)

-yearlyCasesS2.sum(0, INDEX\_CAN\_VARY) ) \* Stage2Cost +

(yearlyCasesS3.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)

-yearlyCasesS3.sum(0, INDEX\_CAN\_VARY) ) \* Stage3Cost +

(yearlyCasesS4.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)

-yearlyCasesS4.sum(0, INDEX\_CAN\_VARY) ) \* Stage4Cost

);

return treatment\_cost;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986448</Id>

<Name><![CDATA[treatReCost]]></Name>

<X>1020</X><Y>2690</Y>

<Label><X>15</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[/\*

\* int Doc = VistsSlider1.getIntValue() \* DocCost; int nur =

\* VistsSlider2.getIntValue() \* nurseCost; int Beds =

\* VistsSlider3.getIntValue() \* BedCost; int totalReCost =

\* Beds + Doc + nur;

\*/

return 0;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986450</Id>

<Name><![CDATA[setBaseStaffCount]]></Name>

<X>990</X><Y>2780</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[double[] InitPop = new double[14];

// int regionIndex = combobox4.getValueIndex();

// int countLoop = abs(combobox1.getValueIndex() -

// combobox2.getValueIndex());

// int start = combobox1.getValueIndex();

for (int i = 0; i < 14; i++) {

InitPop[i] = population[i] / population[0];

InitPop[i] \*= staffCount;

}

for (int i = 0; i < 14; i++) {

for (int j = 0; j < 12; j++) {

staff\_Base.set(InitPop[i], i, j);

}

}

/\*

\* for(int i=0; i<14; i++){ for(int j=0; j<12; j++){ double

\* val = (InitPop[i]/12)\*acceptancePercentage;

\* vistCasesIncrease2.set(val,i,j); } }

\*/

int cPop = 0;

for (int i = 0; i < 14; i++) {

cPop = 0;

for (int j = 0; j < 12; j++) {

cPop = (int) Population.get(i, j);

staff\_Base.set((cPop \* 0.007), i, j);

// equipment.set((cPop\*0.003), i,j);

}

}

]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986452</Id>

<Name><![CDATA[setBaseMachineCount]]></Name>

<X>950</X><Y>2810</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[double[] InitPop = new double[14];

for (int i = 0; i < 14; i++) {

InitPop[i] = population[i] / population[0];

InitPop[i] \*= machineCount;

}

for (int i = 0; i < 14; i++) {

for (int j = 0; j < 12; j++) {

equipment\_Base.set(InitPop[i], i, j);

}

}

int cPop = 0;

for (int i = 0; i < 14; i++) {

cPop = 0;

for (int j = 0; j < 12; j++) {

cPop = (int) Population.get(i, j);

equipment\_Base.set((cPop \* 0.003), i, j);

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986454</Id>

<Name><![CDATA[invType]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>1070</X><Y>2600</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[if (combobox.getValueIndex() == 0) {

return invCost = SMS;

}

else if (combobox.getValueIndex() == 1) {

return invCost = Mail;

}

else if (combobox.getValueIndex() == 2) {

return invCost = Ad;

}

else

return 0;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986456</Id>

<Name><![CDATA[ftes]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>980</X><Y>2590</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[double staff = slider2.getIntValue();

int accepted = (int) Math.ceil(accepted());

// work hours in minutes

double workmin = workdays\_slider.getIntValue();

// screening process time

double screenmin = servicetime\_slider.getIntValue();

// total work screening in min

int totalmin = (int) Math.ceil(workmin / screenmin);

// total screening per day

double dayscreening = (int) staff \* totalmin;

fte = (int) Math.ceil(accepted / dayscreening);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[long]]></ReturnType>

<Id>1753022986458</Id>

<Name><![CDATA[tcost]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>970</X><Y>2480</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[long t = (long) Math.ceil(empCost \* slider2.getValue()

+ mchCost \* slider3.getValue());

tcost\_text = t;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[Color]]></ReturnType>

<Id>1753022986460</Id>

<Name><![CDATA[interpolateColor]]></Name>

<X>682</X><Y>2544</Y>

<Label><X>18.333</X><Y>-2.667</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[start]]></Name>

<Type><![CDATA[Color]]></Type>

</Parameter>

<Parameter>

<Name><![CDATA[end]]></Name>

<Type><![CDATA[Color]]></Type>

</Parameter>

<Parameter>

<Name><![CDATA[ratio]]></Name>

<Type><![CDATA[double]]></Type>

</Parameter>

<Body><![CDATA[int red = (int) (start.getRed()

+ ratio \* (end.getRed() - start.getRed()));

int green = (int) (start.getGreen()

+ ratio \* (end.getGreen() - start.getGreen()));

int blue = (int) (start.getBlue()

+ ratio \* (end.getBlue() - start.getBlue()));

int alpha = (int) (start.getAlpha()

+ ratio \* (end.getAlpha() - start.getAlpha()));

return new Color(red, green, blue, alpha);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986462</Id>

<Name><![CDATA[GapCalculation]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>680</X><Y>2740</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int Tpopulation = (int) BreastCancerCases.sum(0,

INDEX\_CAN\_VARY);

int currentDoctors = 100; // Current number of doctors

traceln(Tpopulation);

// Ratio of doctors per 10,000 population

double doctorRatio = 30.77 / 10000;

// nurse and midwafiry = 55.085

traceln(doctorRatio);

// Calculate the required number of doctors

double requiredDoctors = Tpopulation \* doctorRatio;

// Calculate the gap

int doctorGap1 = (int) Math

.ceil(requiredDoctors - currentDoctors);

traceln(doctorGap1);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986464</Id>

<Name><![CDATA[NurseGap]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>480</X><Y>2690</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionIndex = combobox4.getValueIndex();

int countLoop = abs(combobox1.getValueIndex()

- combobox2.getValueIndex());

int start = combobox1.getValueIndex();

// Define the ratio of Nurses per 10,000 population

double doctorRatio = 55.085 / 10000;

if (regionIndex == 0) { // Kingdom selected

// Get the total number of doctors from the slider for

// the Kingdom

double totalDoctorsForKingdom = slider2.getValue();

// Iterate over the regions to distribute doctors

for (int reg = 1; reg <= 13; reg++) {

// Get the percentage of doctors for the region from

// doctorGap

double percentageDoctorsForRegion = PercOfDoc

.get(reg);

// Calculate the allocated number of doctors for the

// region

int allocatedDoctorsForRegion = (int) Math

.round(percentageDoctorsForRegion

\* totalDoctorsForKingdom);

// Get the region's population

int regionPopulation = (int) BreastCancerCases

.sum(reg, INDEX\_CAN\_VARY);

// Calculate the required number of doctors for the

// region

double requiredDoctorsForRegion = regionPopulation

\* doctorRatio;

// Calculate the numeric doctor gap for the region

int doctorGapForRegion = (int) Math

.ceil(requiredDoctorsForRegion

- allocatedDoctorsForRegion);

// Store the numeric doctor gap in the doctorGap

// array

doctorGap.set(doctorGapForRegion, reg);

}

// After distributing to all regions, recalculate the

// total for the Kingdom

int totalDoctorGapForKingdom = 0;

for (int reg = 1; reg <= 13; reg++) {

totalDoctorGapForKingdom += doctorGap.get(reg);

}

// Set the total doctor gap for the Kingdom (index 0)

doctorGap.set(totalDoctorGapForKingdom, 0);

} else { // A specific region is selected

// Get the population for the selected region

int regionPopulation = (int) BreastCancerCases

.sum(regionIndex, INDEX\_CAN\_VARY);

// Calculate the required number of doctors for the

// selected region

double requiredDoctorsForRegion = regionPopulation

\* doctorRatio;

// Get the current number of doctors for the selected

// region from the slider

double currentDoctorsForRegion = slider2.getValue();

// Calculate the numeric doctor gap for the selected

// region

int doctorGapForRegion = (int) Math

.ceil(requiredDoctorsForRegion

- currentDoctorsForRegion);

// Store the numeric doctor gap in the doctorGap array

doctorGap.set(doctorGapForRegion, regionIndex);

// Recalculate the total doctor gap for the Kingdom

// after the change in a specific region

int totalDoctorGapForKingdom = 0;

for (int reg = 1; reg <= 13; reg++) {

totalDoctorGapForKingdom += doctorGap.get(reg);

}

// Set the recalculated total doctor gap for the Kingdom

// (index 0)

doctorGap.set(totalDoctorGapForKingdom, 0);

}

/\*

\* // Define the ratio of Nurses per 10,000 population

\* double doctorRatio = 55.085 / 10000;

\*

\* if (regionIndex == 0) { // Kingdom selected // Get the

\* total number of doctors from the slider for the Kingdom

\* double totalDoctorsForKingdom = VistsSlider1.getValue();

\*

\* // Iterate over the regions to distribute doctors and

\* calculate the doctor gap for each for (int reg = 0; reg

\* <= 13; reg++) { // Get the percentage of doctors for the

\* region from doctorGap double percentageDoctorsForRegion =

\* doctorGap.get(reg);

\*

\* // Calculate the allocated number of doctors for the

\* region int allocatedDoctorsForRegion = (int)

\* Math.round(percentageDoctorsForRegion \*

\* totalDoctorsForKingdom);

\*

\* // Get the region's population int regionPopulation =

\* (int) BreastCancerCases.sum(reg, INDEX\_CAN\_VARY);

\*

\* // Calculate the required number of doctors for the

\* region double requiredDoctorsForRegion =

\* Math.ceil(regionPopulation \* doctorRatio);

\*

\* // Calculate the numeric doctor gap for the region int

\* doctorGapForRegion = (int)

\* Math.ceil(requiredDoctorsForRegion -

\* allocatedDoctorsForRegion);

\*

\* // Store the numeric doctor gap in the doctorGap array

\* doctorGap.set(doctorGapForRegion, reg); }

\*

\*

\*

\* } else { // A specific region is selected // Get the

\* population for the selected region int regionPopulation =

\* (int) BreastCancerCases.sum(regionIndex, INDEX\_CAN\_VARY);

\*

\* // Calculate the required number of doctors for the

\* selected region double requiredDoctorsForRegion =

\* regionPopulation \* doctorRatio;

\*

\* // Get the current number of doctors for the selected

\* region from the slider double currentDoctorsForRegion =

\* VistsSlider1.getValue();

\*

\* // Calculate the numeric doctor gap for the selected

\* region int doctorGapForRegion = (int)

\* Math.ceil(requiredDoctorsForRegion -

\* currentDoctorsForRegion);

\*

\* // Store the numeric doctor gap in the doctorGap array

\* doctorGap.set(doctorGapForRegion, regionIndex);

\*

\* // Recalculate and update the Kingdom's total numeric

\* doctor gap after updating the specific region double

\* sumOfCurrentDoctors = 0.0; double

\* totalRequiredDoctorsForKingdom = 0.0; for (int reg = 1;

\* reg <= 13; reg++) { // Get the population for each region

\* int regPopulation = (int) BreastCancerCases.sum(reg,

\* INDEX\_CAN\_VARY);

\*

\* // Calculate the required number of doctors for each

\* region requiredDoctorsForRegion = regPopulation \*

\* doctorRatio;

\*

\* // Sum the current number of doctors across all regions

\* sumOfCurrentDoctors += (int) doctorGap.get(reg);

\* totalRequiredDoctorsForKingdom +=

\* requiredDoctorsForRegion; }

\*

\* // Calculate the total numeric doctor gap for the Kingdom

\* int totalDoctorGapForKingdom = (int)

\* Math.ceil(totalRequiredDoctorsForKingdom -

\* sumOfCurrentDoctors);

\* doctorGap.set(totalDoctorGapForKingdom, 0);

\*

\*

\* }

\*/

]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986466</Id>

<Name><![CDATA[DefaultScreenings]]></Name>

<X>-1030</X><Y>300</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int currentYear = getYear();

int startYear = 2021;

int yearIndex = currentYear - startYear;

if (yearIndex == 0) {

for (int i = 0; i < 14; i++) {

for (int j = 0; j < 12; j++) {

AcceptedInvitations.set(

screening\_base2021.get(i, j), i, j);

}

}

}

else if (yearIndex == 1) {

for (int i = 0; i < 14; i++) {

for (int j = 0; j < 12; j++) {

AcceptedInvitations.set(

screening\_base2022.get(i, j), i, j);

}

}

}

else if (yearIndex == 2) {

for (int i = 0; i < 14; i++) {

for (int j = 0; j < 12; j++) {

AcceptedInvitations.set(

screening\_base2023.get(i, j), i, j);

}

}

}

/\*

\* else if (yearIndex == 3){ for (int i = 0; i < 14; i++) {

\* for (int j = 0; j < 12; j++) {

\* AcceptedInvitations.set(screening\_base2023.get(i, j), i,

\* j); } } }

\*/

else {

for (int i = 0; i < 14; i++) {

for (int j = 0; j < 12; j++) {

AcceptedInvitations

.set(screeningScenario.get(i, j), i, j);

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986468</Id>

<Name><![CDATA[SurvRateChange]]></Name>

<X>2000</X><Y>980</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionSize = 14;

for (int region = 0; region < regionSize; region++) {

for (int ageGroup = 0; ageGroup < 6; ageGroup++) {

S1SurvivalRate.set(SurvivalAge1[0], region,

ageGroup);

S2SurvivalRate.set(SurvivalAge1[1], region,

ageGroup);

S3SurvivalRate.set(SurvivalAge1[2], region,

ageGroup);

S4SurvivalRate.set(SurvivalAge1[3], region,

ageGroup);

}

}

for (int region = 0; region < regionSize; region++) {

for (int ageGroup = 5; ageGroup < 9; ageGroup++) {

S1SurvivalRate.set(SurvivalAge2[0], region,

ageGroup);

S2SurvivalRate.set(SurvivalAge2[1], region,

ageGroup);

S3SurvivalRate.set(SurvivalAge2[2], region,

ageGroup);

S4SurvivalRate.set(SurvivalAge2[3], region,

ageGroup);

}

}

for (int region = 0; region < regionSize; region++) {

for (int ageGroup = 8; ageGroup < 12; ageGroup++) {

S1SurvivalRate.set(SurvivalAge3[0], region,

ageGroup);

S2SurvivalRate.set(SurvivalAge3[1], region,

ageGroup);

S3SurvivalRate.set(SurvivalAge3[2], region,

ageGroup);

S4SurvivalRate.set(SurvivalAge3[3], region,

ageGroup);

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986470</Id>

<Name><![CDATA[percDef]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>10060</X><Y>290</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[editbox20.setText(screeningScenario.get(RegionNumber, 0));

editbox21.setText(screeningScenario.get(RegionNumber, 1));

editbox22.setText(screeningScenario.get(RegionNumber, 2));

editbox23.setText(screeningScenario.get(RegionNumber, 3));

editbox24.setText(screeningScenario.get(RegionNumber, 4));

editbox25.setText(screeningScenario.get(RegionNumber, 5));

editbox26.setText(screeningScenario.get(RegionNumber, 6));

editbox27.setText(screeningScenario.get(RegionNumber, 7));

editbox28.setText(screeningScenario.get(RegionNumber, 8));

editbox29.setText(screeningScenario.get(RegionNumber, 9));

editbox30.setText(screeningScenario.get(RegionNumber, 10));

editbox31.setText(screeningScenario.get(RegionNumber, 11));]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986472</Id>

<Name><![CDATA[VisitperReg]]></Name>

<X>10060</X><Y>370</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[/\*

\* int countLoop = 0; int start = 0;

\*

\* if (chooseAge.isSelected()) { start =

\* combobox1.getValueIndex(); int end =

\* combobox2.getValueIndex(); countLoop = end - start; }

\* else { countLoop = LageGroup - FageGroup; start =

\* FageGroup; }

\*

\*

\* if (RegionNumber == 0) { if (on == true) { // Distribute

\* the kingdom's percentages across all regions for (int reg

\* = 1; reg <= 13; reg++) { for (int age = start; age <=

\* countLoop; age++) { double VisitPerRegion =

\* screeningScenario.get(0, age);

\* screeningScenario.set(VisitPerRegion, reg, age); } } } }

\*

\* else { // Accumulate the totals from all regions and

\* assign the result to the Kingdom for each age group for

\* (int age = start; age <= countLoop; age++) { int

\* totalInvites = 0; for (int reg = 1; reg <= 13; reg++) {

\* totalInvites += screeningScenario.get(reg, age) \*

\* Population.get(reg, age); } double VisitKingdom =

\* (double) (totalInvites / kingpopAge(age)); VisitKingdom =

\* Math.round(VisitKingdom \* 1000.0) / 1000.0;

\* screeningScenario.set(VisitKingdom, 0, age); } }

\*/]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986474</Id>

<Name><![CDATA[rec\_age]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>10060</X><Y>410</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int countLoop = 11;

int start = 0;

countLoop = combobox2.getValueIndex();

start = combobox1.getValueIndex();

// 20-24

if (start == 0 && countLoop == 0) {

round20.setVisible(false);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 1) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 2) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 3) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 4) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 5) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 6) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 7) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 8) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 9) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 10) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 0 && countLoop == 11) {

round20.setVisible(false);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 25-29

else if (start == 1 && countLoop == 1) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 2) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 3) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 4) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 5) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 6) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 7) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 8) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 9) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 1 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(false);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 30-34

else if (start == 2 && countLoop == 2) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 2 && countLoop == 3) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 2 && countLoop == 4) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 2 && countLoop == 5) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 2 && countLoop == 6) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 2 && countLoop == 7) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 2 && countLoop == 8) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 2 && countLoop == 9) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 2 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 2 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(false);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 35-39

else if (start == 3 && countLoop == 3) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(false);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 3 && countLoop == 4) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 3 && countLoop == 5) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 3 && countLoop == 6) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 3 && countLoop == 7) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 3 && countLoop == 8) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 3 && countLoop == 9) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 3 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 3 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(false);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 40-44

else if (start == 4 && countLoop == 4) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(false);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 4 && countLoop == 5) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 4 && countLoop == 6) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 4 && countLoop == 7) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 4 && countLoop == 8) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 4 && countLoop == 9) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 4 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 4 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(false);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 45-49

else if (start == 5 && countLoop == 5) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(false);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 5 && countLoop == 6) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 5 && countLoop == 7) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 5 && countLoop == 8) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 5 && countLoop == 9) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 5 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 5 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(false);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 50-54

else if (start == 6 && countLoop == 6) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(false);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 6 && countLoop == 7) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 6 && countLoop == 8) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 6 && countLoop == 9) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 6 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 6 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(false);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 55-59

else if (start == 7 && countLoop == 7) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(false);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 7 && countLoop == 8) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 7 && countLoop == 9) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 7 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 7 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(false);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 60-64

else if (start == 8 && countLoop == 8) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(false);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 8 && countLoop == 9) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 8 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 8 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(false);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 65-69

else if (start == 9 && countLoop == 9) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(false);

round70.setVisible(true);

round75.setVisible(true);

}

else if (start == 9 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 9 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(false);

round70.setVisible(false);

round75.setVisible(false);

}

// 70-74

else if (start == 10 && countLoop == 10) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(false);

round75.setVisible(true);

}

else if (start == 10 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(false);

round75.setVisible(false);

}

// 75+

else if (start == 11 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(false);

}

else if (start == 11 && countLoop == 11) {

round20.setVisible(true);

round25.setVisible(true);

round30.setVisible(true);

round35.setVisible(true);

round40.setVisible(true);

round45.setVisible(true);

round50.setVisible(true);

round55.setVisible(true);

round60.setVisible(true);

round65.setVisible(true);

round70.setVisible(true);

round75.setVisible(true);

}

enabled();]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986476</Id>

<Name><![CDATA[yearRelativeSurvival]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>80</X><Y>750</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionSize = 14;

int ageGroupSize = 12;

// survival rates for each stage and time period

double[] s2RatesEarly = {0.999, 0.999, 0.999, 0.999, 0.999,

0.999, 1, 1, 1, 1, 1, 1};

double[] s3RatesEarly = {0.992, 0.992, 0.992, 0.992, 0.992,

0.992, 0.985, 0.985, 0.985, 0.969, 0.969, 0.969};

double[] s4RatesEarly = {0.837, 0.837, 0.837, 0.837, 0.837,

0.837, 0.72, 0.72, 0.72, 0.60, 0.60, 0.60};

double[] s2RatesMid = {0.987, 0.987, 0.987, 0.987, 0.987,

0.987, 0.995, 0.995, 0.995, 1, 1, 1};

double[] s3RatesMid = {0.933, 0.933, 0.933, 0.933, 0.933,

0.933, 0.93, 0.93, 0.93, 0.895, 0.895, 0.895};

double[] s4RatesMid = {0.59, 0.59, 0.59, 0.59, 0.59, 0.59,

0.485, 0.485, 0.485, 0.382, 0.382, 0.382};

double[] s2RatesLate = {0.975, 0.975, 0.975, 0.975, 0.975,

0.975, 0.988, 0.988, 0.988, 1, 1, 1};

double[] s3RatesLate = {0.88, 0.88, 0.88, 0.88, 0.88, 0.88,

0.877, 0.877, 0.877, 0.823, 0.823, 0.823};

double[] s4RatesLate = {0.428, 0.428, 0.428, 0.428, 0.428,

0.428, 0.353, 0.353, 0.353, 0.273, 0.273, 0.273};

// adjust survival rates based on TimeInStage

for (int region = 0; region < regionSize; region++) {

if (time() < 3) {

S1SurvivalRate = 0.9996;

for (int age = 0; age < ageGroupSize; age++) {

S2SurvivalRate.set(s2RatesEarly[age], region,

age);

S3SurvivalRate.set(s3RatesEarly[age], region,

age);

S4SurvivalRate.set(s4RatesEarly[age], region,

age);

}

} else if (time() >= 3 && time() < 5) {

S1SurvivalRate = 0.994;

for (int age = 0; age < ageGroupSize; age++) {

S2SurvivalRate.set(s2RatesMid[age], region,

age);

S3SurvivalRate.set(s3RatesMid[age], region,

age);

S4SurvivalRate.set(s4RatesMid[age], region,

age);

}

} else {

S1SurvivalRate = 0.987;

for (int age = 0; age < ageGroupSize; age++) {

S2SurvivalRate.set(s2RatesLate[age], region,

age);

S3SurvivalRate.set(s3RatesLate[age], region,

age);

S4SurvivalRate.set(s4RatesLate[age], region,

age);

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986478</Id>

<Name><![CDATA[ScreeningPerc]]></Name>

<X>-1030</X><Y>330</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// Retrieve the screening percentages for 2020 from the

// database

List<Double> screeningPerc = selectFrom(default\_screenings)

.list(default\_screenings.perc\_2020);

// Convert the List<Double> to a double[]

double[] doubleArr = screeningPerc.stream()

.mapToDouble(Double::doubleValue).toArray();

// Round each element in the doubleArr to three decimal

// places

for (int i = 0; i < doubleArr.length; i++) {

doubleArr[i] = Math.round(doubleArr[i] \* 1000.0)

/ 1000.0;

}

screening\_base2020.set(doubleArr);

// Retrieve the screening percentages for 2021 from the

// database

List<Double> screeningPerc1 = selectFrom(default\_screenings)

.list(default\_screenings.perc\_2021);

// Convert the List<Double> to a double[]

double[] doubleArr1 = screeningPerc1.stream()

.mapToDouble(Double::doubleValue).toArray();

// Round each element in the doubleArr to three decimal

// places

for (int i = 0; i < doubleArr1.length; i++) {

doubleArr1[i] = Math.round(doubleArr1[i] \* 1000.0)

/ 1000.0;

}

screening\_base2021.set(doubleArr1);

// Retrieve the screening percentages for 2022 from the

// database

List<Double> screeningPerc2 = selectFrom(default\_screenings)

.list(default\_screenings.perc\_2022);

// Convert the List<Double> to a double[]

double[] doubleArr2 = screeningPerc2.stream()

.mapToDouble(Double::doubleValue).toArray();

// Round each element in the doubleArr to three decimal

// places

for (int i = 0; i < doubleArr2.length; i++) {

doubleArr2[i] = Math.round(doubleArr2[i] \* 1000.0)

/ 1000.0;

}

screening\_base2022.set(doubleArr2);

// Retrieve the screening percentages for 2023 from the

// database

List<Double> screeningPerc3 = selectFrom(default\_screenings)

.list(default\_screenings.perc\_2023);

// Convert the List<Double> to a double[]

double[] doubleArr3 = screeningPerc3.stream()

.mapToDouble(Double::doubleValue).toArray();

// Round each element in the doubleArr to three decimal

// places

for (int i = 0; i < doubleArr3.length; i++) {

doubleArr3[i] = Math.round(doubleArr3[i] \* 1000.0)

/ 1000.0;

}

screening\_base2023.set(doubleArr3);

screeningScenario.set(doubleArr3);

// create a param for screening settings

p\_InvitePer.set(doubleArr3);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[HyperArray]]></ReturnType>

<Id>1753022986480</Id>

<Name><![CDATA[newPercentages]]></Name>

<X>-290</X><Y>410</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionSize = 14;

int ageGroupSize = 12;

for (int region = 0; region < regionSize; region++) {

for (int ageGroup = 0; ageGroup < ageGroupSize; ageGroup++) {

double population = Population.get(region,

ageGroup);

double screeningInvites = p\_InvitePer.get(region,

ageGroup); // Invites

screeningInvites = Math.round(

screeningInvites / population \* 1000.0)

/ 1000.0;

screeningScenario.set(screeningInvites, region,

ageGroup);

}

}

]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986482</Id>

<Name><![CDATA[InvitesDefault]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2920</X><Y>150</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int countLoop = 11;

int start = 0;

for (int region = 0; region <= 13; region++) {

for (int i = start; i <= countLoop; i++) {

double invitesperc = screeningScenario.get(region,

i);

/\*

\* if (region == 0) { Invites.set(((int)

\* (kingpopAge(i) \* invitesperc)), 0, i); } else {

\*/

double population = Population.get(region, i);

Invites.set(((int) (invitesperc \* population)),

region, i);

// }

}

}

]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986484</Id>

<Name><![CDATA[survivalFunction]]></Name>

<X>1980</X><Y>1140</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// Stage1

if (StageNumber == 0 && ageIndex == 0) {

// editbox1.setText(SurvivalAge1[0]);

}

if (StageNumber == 0 && ageIndex == 1) {

// editbox1.setText(SurvivalAge2[0]);

}

if (StageNumber == 0 && ageIndex == 2) {

// editbox1.setText(SurvivalAge3[0]);

}

// Stage2

if (StageNumber == 1 && ageIndex == 0) {

// editbox1.setText(SurvivalAge1[1]);

}

if (StageNumber == 1 && ageIndex == 1) {

// editbox1.setText(SurvivalAge2[1]);

}

if (StageNumber == 1 && ageIndex == 2) {

// editbox1.setText(SurvivalAge3[1]);

}

// Stage3

if (StageNumber == 2 && ageIndex == 0) {

// editbox1.setText(SurvivalAge1[2]);

}

if (StageNumber == 2 && ageIndex == 1) {

// editbox1.setText(SurvivalAge2[2]);

}

if (StageNumber == 2 && ageIndex == 2) {

// editbox1.setText(SurvivalAge3[2]);

}

// Stage4

if (StageNumber == 3 && ageIndex == 0) {

// editbox1.setText(SurvivalAge1[3]);

}

if (StageNumber == 3 && ageIndex == 1) {

// editbox1.setText(SurvivalAge2[3]);

}

if (StageNumber == 3 && ageIndex == 2) {

// editbox1.setText(SurvivalAge3[3]);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986486</Id>

<Name><![CDATA[yearlyCost]]></Name>

<X>830</X><Y>1460</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[S1yearlyCost = Stage1Rate.sum(RegionNumber, INDEX\_CAN\_VARY)

\* S1Cost;

S2yearlyCost = Stage2Rate.sum(RegionNumber, INDEX\_CAN\_VARY)

\* S2Cost;

S3yearlyCost = Stage3Rate.sum(RegionNumber, INDEX\_CAN\_VARY)

\* S3Cost;

S4yearlyCost = Stage4Rate.sum(RegionNumber, INDEX\_CAN\_VARY)

\* S4Cost;

totalCosts = (int) (S1yearlyCost + S2yearlyCost

+ S3yearlyCost + S4yearlyCost);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986488</Id>

<Name><![CDATA[enabled]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>10060</X><Y>440</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[if (round20.isVisible() == false) {

editbox20.setEnabled(true);

} else {

editbox20.setEnabled(false);

}

if (round25.isVisible() == false) {

editbox21.setEnabled(true);

} else {

editbox21.setEnabled(false);

}

if (round30.isVisible() == false) {

editbox22.setEnabled(true);

} else {

editbox22.setEnabled(false);

}

if (round35.isVisible() == false) {

editbox23.setEnabled(true);

} else {

editbox23.setEnabled(false);

}

if (round40.isVisible() == false) {

editbox24.setEnabled(true);

} else {

editbox24.setEnabled(false);

}

if (round45.isVisible() == false) {

editbox25.setEnabled(true);

} else {

editbox25.setEnabled(false);

}

if (round50.isVisible() == false) {

editbox26.setEnabled(true);

} else {

editbox26.setEnabled(false);

}

if (round55.isVisible() == false) {

editbox27.setEnabled(true);

} else {

editbox27.setEnabled(false);

}

if (round60.isVisible() == false) {

editbox28.setEnabled(true);

} else {

editbox28.setEnabled(false);

}

if (round65.isVisible() == false) {

editbox29.setEnabled(true);

} else {

editbox29.setEnabled(false);

}

if (round70.isVisible() == false) {

editbox30.setEnabled(true);

} else {

editbox30.setEnabled(false);

}

if (round75.isVisible() == false) {

editbox31.setEnabled(true);

} else {

editbox31.setEnabled(false);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986490</Id>

<Name><![CDATA[yearlyCasesfunc]]></Name>

<X>1960</X><Y>1480</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[/\*casesYear = (int) Math

.ceil(yearlyCases.sum(RegionNumber, INDEX\_CAN\_VARY))

+ Math.ceil(\_yearlyCases.sum(RegionNumber,

INDEX\_CAN\_VARY));\*/

double yc ;

double yc1 ;

if (RegionNumber==0){

yc = yearlyCases.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY) -

yearlyCases.sum(0, INDEX\_CAN\_VARY);

yc1 = \_yearlyCases.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY) -

\_yearlyCases.sum(0, INDEX\_CAN\_VARY);

}else{

yc = yearlyCases.sum(RegionNumber, INDEX\_CAN\_VARY);

yc1 = \_yearlyCases.sum(RegionNumber, INDEX\_CAN\_VARY);

}

casesYear = (int) (yc + yc1);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986492</Id>

<Name><![CDATA[modelInputs]]></Name>

<X>-310</X><Y>480</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[f\_setNegaticeScreened();

// stage 1 growth FROM DATABASES

List<Double> c2020 = selectFrom(model\_inputs)

.list(model\_inputs.c2020);

List<Integer> initialpop = selectFrom(total\_population)

.list(total\_population.population);

double[] doubleArr3 = new double[c2020.size()];

for (int i = 0; i < c2020.size(); i++) {

doubleArr3[i] = c2020.get(i) / initialpop.get(i);

}

Stage1Growth.set(doubleArr3);

// stage 2 growth FROM DATABASES

List<Double> s1\_g = selectFrom(model\_inputs)

.list(model\_inputs.s1\_g);

double[] doubleArr = new double[s1\_g.size()];

for (int i = 0; i < s1\_g.size(); i++) {

doubleArr[i] = s1\_g.get(i);

}

Stage2Growth.set(doubleArr);

// stage 3 growth FROM DATABASES

List<Double> s2\_g = selectFrom(model\_inputs)

.list(model\_inputs.s2\_g);

double[] doubleArr1 = new double[s2\_g.size()];

for (int i = 0; i < s2\_g.size(); i++) {

doubleArr1[i] = s2\_g.get(i);

}

Stage3Growth.set(doubleArr1);

// stage 4 growth FROM DATABASES

List<Double> s3\_g = selectFrom(model\_inputs)

.list(model\_inputs.s3\_g);

double[] doubleArr2 = new double[s3\_g.size()];

for (int i = 0; i < s3\_g.size(); i++) {

doubleArr2[i] = s3\_g.get(i);

}

Stage4Growth.set(doubleArr2);

// S1sus FROM DATABASES

List<Double> s1\_sus = selectFrom(model\_inputs)

.list(model\_inputs.s1\_sus);

double[] doubleArr4 = new double[s1\_sus.size()];

for (int i = 0; i < s1\_sus.size(); i++) {

doubleArr4[i] = s1\_sus.get(i);// r2r()

}

S1Sus.set(doubleArr4);

// S2sus FROM DATABASES

List<Double> s2\_sus = selectFrom(model\_inputs)

.list(model\_inputs.s2\_sus);

double[] doubleArr5 = new double[s2\_sus.size()];

for (int i = 0; i < s2\_sus.size(); i++) {

doubleArr5[i] = s2\_sus.get(i);// r2r()

}

S2Sus.set(doubleArr5);

// S3sus FROM DATABASES

List<Double> s3\_sus = selectFrom(model\_inputs)

.list(model\_inputs.s3\_sus);

double[] doubleArr6 = new double[s3\_sus.size()];

for (int i = 0; i < s3\_sus.size(); i++) {

doubleArr6[i] = s3\_sus.get(i);// r2r();

}

S3Sus.set(doubleArr6);

// S4sus FROM DATABASES

List<Double> s4\_sus = selectFrom(model\_inputs)

.list(model\_inputs.s4\_sus);

double[] doubleArr6\_ = new double[s4\_sus.size()];

for (int i = 0; i < s4\_sus.size(); i++) {

doubleArr6\_[i] = s4\_sus.get(i);// r2r();

}

S4Sus.set(doubleArr6\_);

// Asymptomatic s1 FROM DATABASES

List<Double> nna1 = selectFrom(model\_inputs)

.list(model\_inputs.nna1);

double[] doubleArr7 = new double[nna1.size()];

for (int i = 0; i < nna1.size(); i++) {

doubleArr7[i] = nna1.get(i);

}

// Set the Asymptomatic s1

s1.set(doubleArr7);

// Asymptomatic s2 FROM DATABASES

List<Double> nna2 = selectFrom(model\_inputs)

.list(model\_inputs.nna2);

double[] doubleArr8 = new double[nna2.size()];

for (int i = 0; i < nna2.size(); i++) {

doubleArr8[i] = nna2.get(i);

}

// Set the Asymptomatic s2

s2.set(doubleArr8);

// Asymptomatic s3 FROM DATABASES

List<Double> nna3 = selectFrom(model\_inputs)

.list(model\_inputs.nna3);

double[] doubleArr9 = new double[nna3.size()];

for (int i = 0; i < nna3.size(); i++) {

doubleArr9[i] = nna3.get(i);

}

// Set the Asymptomatic s3

s3.set(doubleArr9);

// Asymptomatic s4 FROM DATABASES

List<Double> nna4 = selectFrom(model\_inputs)

.list(model\_inputs.nna4);

double[] doubleArr10 = new double[nna4.size()];

for (int i = 0; i < nna4.size(); i++) {

doubleArr10[i] = nna4.get(i);

}

// Set the Asymptomatic s4

s4.set(doubleArr10);

for (int age = 0; age < AgeGroup.size(); age++) {

// f\_getMaxScreenPer(age);

// collection.put(age, 100.0);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986494</Id>

<Name><![CDATA[func]]></Name>

<X>-500</X><Y>480</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[st1 = (int) Math

.ceil(Stage1Rate.sum(RegionNumber, INDEX\_CAN\_VARY));]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986496</Id>

<Name><![CDATA[r2r]]></Name>

<Description><![CDATA[Converting ratios to rates]]></Description>

<X>-500</X><Y>430</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[x]]></Name>

<Type><![CDATA[double]]></Type>

</Parameter>

<Body><![CDATA[double math = -Math.log(1 - x);

return math;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986498</Id>

<Name><![CDATA[programCost]]></Name>

<X>120</X><Y>1980</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[/\*

int neededMamograms = (int) (roundToInt(

totalInvite.sum(0, INDEX\_CAN\_VARY))

/ (FTE / procedureT)) + 1;

if (neededMamograms > existingMam) {

ScreeningCost = (neededMamograms \* operatingCost)

+ ((neededMamograms - existingMam) \* priceMam);

existingMam = neededMamograms;

}

else {

ScreeningCost = (existingMam \* operatingCost);

}

\*/

//--region wise

if (v\_screeningType==0)

{

for (int reg=1; reg < Region.size(); reg++){

int needMamo = (int) (roundToInt(

totalInvite.sum(reg, INDEX\_CAN\_VARY))

/ (FTE / procedureT)) + 1;

if (needMamo > c\_mamograms.get(reg)) {

c\_ScreeningCost.put(reg, (needMamo \* operatingCost)

+ ((needMamo - c\_mamograms.get(reg)) \* priceMam));

c\_mamograms.replace(reg, needMamo);

}else{

c\_ScreeningCost.put(reg, c\_mamograms.get(reg)\*operatingCost);

}

}

//KSA

int ScreeningCostKSA=0;

for (int key : c\_ScreeningCost.keySet()){

ScreeningCostKSA += c\_ScreeningCost.get(key);

}

set\_ScreeningCost(ScreeningCostKSA);

} else { //if the resource based screening

for (int reg=0; reg < Region.size(); reg++){

c\_ScreeningCost.put(reg, c\_mamograms.get(reg)\*operatingCost);

if (reg==0){

set\_ScreeningCost(c\_mamograms.get(reg)\*operatingCost) ;

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986500</Id>

<Name><![CDATA[f\_StartUp]]></Name>

<X>-310</X><Y>280</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[RegionNumber = 0;

regionColors();

StageNumber = 0;

ageIndex = 0;

for (int i=0; i < c\_optParam.size(); i++){

ds\_covPer.add( 20 + (i\*5) , c\_optParam.get(i) );

}

//f\_initResourceScreening();]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986502</Id>

<Name><![CDATA[f\_createHeaderInExcel]]></Name>

<X>-290</X><Y>310</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// Initialize the Excel index for headers

int headerIndex = 1;

// Adding headers for the sheet

savetoExcel.setCellValue("Region", "Base", headerIndex, 1);

savetoExcel.setCellValue("Age Group", "Base", headerIndex,

2);

savetoExcel.setCellValue("Year", "Base", headerIndex, 3);

savetoExcel.setCellValue("Population", "Base", headerIndex,

4);

savetoExcel.setCellValue("Breast Cancer Cases", "Base",

headerIndex, 5);

savetoExcel.setCellValue("Recoveries", "Base", headerIndex,

6);

savetoExcel.setCellValue("Cancer Mortalities", "Base",

headerIndex, 7);

savetoExcel.setCellValue("Stage 1", "Base", headerIndex, 8);

savetoExcel.setCellValue("Stage 2", "Base", headerIndex, 9);

savetoExcel.setCellValue("Stage 3", "Base", headerIndex,

10);

savetoExcel.setCellValue("Stage 4", "Base", headerIndex,

11);

savetoExcel.setCellValue("Yearly Cases", "Base",

headerIndex, 12);

savetoExcel.setCellValue("Prevalence", "Base", headerIndex,

13);

savetoExcel.setCellValue("Total Mortalities", "Base",

headerIndex, 14);

savetoExcel.setCellValue("Expected Survival Rate", "Base",

headerIndex, 15);

savetoExcel.setCellValue("AIR", "Base", headerIndex, 16);

savetoExcel.setCellValue("ASR", "Base", headerIndex, 17);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986504</Id>

<Name><![CDATA[f\_addYearlyDataToExcel]]></Name>

<X>-290</X><Y>330</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[create\_de\_updateDataExcel(1, MINUTE);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986506</Id>

<Name><![CDATA[f\_setScreeningPop]]></Name>

<X>-290</X><Y>370</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// Total invitation script

double[] doubleArr1 = new double[168];

double[] AcceptedInvitationsArr = AcceptedInvitations

.getData();

double[] TotAsympArr = TotAsymp.getData();

for (int i = 0; i < TotAsympArr.length; i++) {

doubleArr1[i] = Math.round(

AcceptedInvitationsArr[i] \* TotAsympArr[i]);

}

totalInvite.set(doubleArr1);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986508</Id>

<Name><![CDATA[f\_yearlyCasesForStages]]></Name>

<X>-890</X><Y>650</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int i = 0; i < c\_StagesStock.size(); i++) {

double[] stockArr = c\_StagesStock.get(i).getData();

double[] flowArr = v\_Year == 0

? new double[stockArr.length]

: c\_parYearlyStageCases.get(i).getData();

// Subtract index by index using IntStream

double[] yearlyCasesArr = IntStream

.range(0, stockArr.length)

.mapToDouble(index -> stockArr[index]

- flowArr[index])

.toArray();

c\_parYearlyStageCases.get(i).set(yearlyCasesArr);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986510</Id>

<Name><![CDATA[f\_setStageCases]]></Name>

<X>-290</X><Y>390</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[Stage1.set(selectFrom(db\_bc\_cases\_2020)

.where(db\_bc\_cases\_2020.stage.eq("Stage1"))

.list(db\_bc\_cases\_2020.number\_of\_cases).stream()

.mapToDouble(Integer::doubleValue).toArray());

Stage2.set(selectFrom(db\_bc\_cases\_2020)

.where(db\_bc\_cases\_2020.stage.eq("Stage2"))

.list(db\_bc\_cases\_2020.number\_of\_cases).stream()

.mapToDouble(Integer::doubleValue).toArray());

Stage3.set(selectFrom(db\_bc\_cases\_2020)

.where(db\_bc\_cases\_2020.stage.eq("Stage3"))

.list(db\_bc\_cases\_2020.number\_of\_cases).stream()

.mapToDouble(Integer::doubleValue).toArray());

Stage4.set(selectFrom(db\_bc\_cases\_2020)

.where(db\_bc\_cases\_2020.stage.eq("Stage4"))

.list(db\_bc\_cases\_2020.number\_of\_cases).stream()

.mapToDouble(Integer::doubleValue).toArray());]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986512</Id>

<Name><![CDATA[fetch\_ScInputs]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>-840</X><Y>450</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[excelFile\_ScreeningScenariosInputs.writeFile();

for (int i = 0; i < c\_ScrPerEditBoxes.size(); i++) {

excelFile\_ScreeningScenariosInputs.setCellValue(

Math.round(c\_ScrPerEditBoxes.get(i)

.getDoubleValue()) + "%",

"Sheet1", 3, i + 2);

}

excelFile\_ScreeningScenariosInputs

.setCellValue(timemax / 12, "Sheet1", 3, 14);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986514</Id>

<Name><![CDATA[sc\_getoutputs]]></Name>

<X>-840</X><Y>480</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[sc\_year[roundToInt(time())] = String.valueOf(getYear() - 1);

sc\_detection[roundToInt(time())] = casesYear;//done

if (RegionNumber==0){

sc\_stage1[roundToInt(time())] = (int) (Math.ceil( yearlyCasesS1.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)-

yearlyCasesS1.sum(0, INDEX\_CAN\_VARY) )+

Math.ceil( \_yearlyCasesS1.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)-

\_yearlyCasesS1.sum(0, INDEX\_CAN\_VARY) ));

sc\_stage2[roundToInt(time())] = (int) (Math.ceil( yearlyCasesS2.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)-

yearlyCasesS2.sum(0, INDEX\_CAN\_VARY) )+

Math.ceil( \_yearlyCasesS2.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)-

\_yearlyCasesS2.sum(0, INDEX\_CAN\_VARY) ));

sc\_stage3[roundToInt(time())] = (int) (Math.ceil( yearlyCasesS3.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)-

yearlyCasesS3.sum(0, INDEX\_CAN\_VARY) )+

Math.ceil( \_yearlyCasesS3.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)-

\_yearlyCasesS3.sum(0, INDEX\_CAN\_VARY) ));

sc\_stage4[roundToInt(time())] = (int) (Math.ceil( yearlyCasesS4.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)-

yearlyCasesS4.sum(0, INDEX\_CAN\_VARY) )+

Math.ceil( \_yearlyCasesS4.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)-

\_yearlyCasesS4.sum(0, INDEX\_CAN\_VARY) ));

}else{

sc\_stage1[roundToInt(time())] = (int) Math.ceil(

yearlyCasesS1.sum(RegionNumber, INDEX\_CAN\_VARY))

+ Math.ceil(\_yearlyCasesS1.sum(RegionNumber,

INDEX\_CAN\_VARY));

sc\_stage2[roundToInt(time())] = (int) Math.ceil(

yearlyCasesS2.sum(RegionNumber, INDEX\_CAN\_VARY))

+ Math.ceil(\_yearlyCasesS2.sum(RegionNumber,

INDEX\_CAN\_VARY));

sc\_stage3[roundToInt(time())] = (int) Math.ceil(

yearlyCasesS3.sum(RegionNumber, INDEX\_CAN\_VARY))

+ Math.ceil(\_yearlyCasesS3.sum(RegionNumber,

INDEX\_CAN\_VARY));

sc\_stage4[roundToInt(time())] = (int) Math.ceil(

yearlyCasesS4.sum(RegionNumber, INDEX\_CAN\_VARY))

+ Math.ceil(\_yearlyCasesS4.sum(RegionNumber,INDEX\_CAN\_VARY));

}

sc\_programcost[roundToInt(time())] = RegionNumber==0? ScreeningCost : c\_ScreeningCost.get(RegionNumber); //done

sc\_treatmentcost[roundToInt(time())] = RegionNumber==0? treatmentCost(): c\_TreatmentCost.get(RegionNumber); //done

sc\_savedyears[roundToInt(time())] = YearsSavedKingdom;//done

sc\_surrate[roundToInt(time())] = SurRateKingdom;//done]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986516</Id>

<Name><![CDATA[getHealthyScreened]]></Name>

<X>920</X><Y>-280</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int region = 0; region < 14; region++) {

for (int ageGroup = 0; ageGroup < 12; ageGroup++) {

double value1 = CancerFree.get(region, ageGroup);

NegtiveScreened.set(value1, region, ageGroup, 0);

CancerFree.set(0, region, ageGroup);

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986518</Id>

<Name><![CDATA[getvaluesfromoriginalflow1]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>1110</X><Y>-330</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionCount = Stage1Growth.getDimensions().get(0)

.size();

int ageGroupCount = Stage1Growth.getDimensions().get(1)

.size();

int timeSinceScreeningCount = \_Stage1Growth.getDimensions()

.get(2).size();

for (int region = 0; region < regionCount; region++) {

for (int ageGroup = 0; ageGroup < ageGroupCount; ageGroup++) {

double value1 = Stage1Growth.get(region, ageGroup);

double value2 = Stage2Growth.get(region, ageGroup);

double value3 = Stage3Growth.get(region, ageGroup);

double value4 = Stage4Growth.get(region, ageGroup);

double value5 = S1Sus.get(region, ageGroup);

double value6 = S2Sus.get(region, ageGroup);

double value7 = S3Sus.get(region, ageGroup);

double value8 = S4Sus.get(region, ageGroup);

for (int timeSinceScreening = 0; timeSinceScreening < timeSinceScreeningCount; timeSinceScreening++) {

\_Stage1Growth.set(value1, region, ageGroup,

timeSinceScreening);

\_Stage2Growth.set(value2, region, ageGroup,

timeSinceScreening);

\_Stage3Growth.set(value3, region, ageGroup,

timeSinceScreening);

\_Stage4Growth.set(value4, region, ageGroup,

timeSinceScreening);

\_S1Sus.set(value5, region, ageGroup,

timeSinceScreening);

\_S2Sus.set(value6, region, ageGroup,

timeSinceScreening);

\_S3Sus.set(value7, region, ageGroup,

timeSinceScreening);

\_S4Sus.set(value8, region, ageGroup,

timeSinceScreening);

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986520</Id>

<Name><![CDATA[getvaluesfromoriginalflow]]></Name>

<X>924</X><Y>-375</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int region = 0; region < 14; region++) {

for (int ageGroup = 0; ageGroup < 12; ageGroup++) {

double value1 = Stage1Growth.get(region, ageGroup);

double value2 = Stage2Growth.get(region, ageGroup);

double value3 = Stage3Growth.get(region, ageGroup);

double value4 = Stage4Growth.get(region, ageGroup);

double value5 = S1Sus.get(region, ageGroup);

double value6 = S2Sus.get(region, ageGroup);

double value7 = S3Sus.get(region, ageGroup);

double value8 = S4Sus.get(region, ageGroup);

// Loop through TimeSinceScreening dimension

for (int timeSinceScreening = 0; timeSinceScreening < 61; timeSinceScreening++) {

\_Stage1Growth.set(value1, region, ageGroup,

timeSinceScreening);

\_Stage2Growth.set(value2, region, ageGroup,

timeSinceScreening);

\_Stage3Growth.set(value3, region, ageGroup,

timeSinceScreening);

\_Stage4Growth.set(value4, region, ageGroup,

timeSinceScreening);

\_S1Sus.set(value5, region, ageGroup,

timeSinceScreening);

\_S2Sus.set(value6, region, ageGroup,

timeSinceScreening);

\_S3Sus.set(value7, region, ageGroup,

timeSinceScreening);

\_S4Sus.set(value8, region, ageGroup,

timeSinceScreening);

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986522</Id>

<Name><![CDATA[agingFunction]]></Name>

<X>920</X><Y>-220</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int region = 0; region < 14; region++) {

for (int ageGroup = 0; ageGroup < 12; ageGroup++) {

// Loop through TimeSinceScreening dimension

for (int timeSinceScreening = timemax; timeSinceScreening > 0; timeSinceScreening--) {

NegtiveScreened.set(

NegtiveScreened.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

\_Stage1UnScreened.set(

\_Stage1UnScreened.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

\_Stage2UnScreened.set(

\_Stage2UnScreened.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

\_Stage3UnScreened.set(

\_Stage3UnScreened.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

\_Stage4UnScreened.set(

\_Stage4UnScreened.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

\_Stage1.set(

\_Stage1.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

\_Stage2.set(

\_Stage2.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

\_Stage3.set(

\_Stage3.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

\_Stage4.set(

\_Stage4.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

\_OtherMortalities.set(

\_OtherMortalities.get(region, ageGroup,

timeSinceScreening - 1),

region, ageGroup, timeSinceScreening);

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986524</Id>

<Name><![CDATA[movingCases]]></Name>

<X>920</X><Y>-170</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int region = 0; region < 14; region++) {

for (int ageGroup = 0; ageGroup < 12; ageGroup++) {

double modTime = timemax / 60.0;

double cmodTime = 1.0 - modTime;

double value1 = NegtiveScreened.get(region,

ageGroup, timemax - 1);

double value2 = \_Stage1UnScreened.get(region,

ageGroup, timemax - 1);

double value3 = \_Stage2UnScreened.get(region,

ageGroup, timemax - 1);

double value4 = \_Stage3UnScreened.get(region,

ageGroup, timemax - 1);

double value5 = \_Stage4UnScreened.get(region,

ageGroup, timemax - 1);

/\*

\* this can be implemented for age group wise

\* screening frequency sanakiyan @21May int

\* timeMaxValue = c\_timeMaxAgeGroup.get(ageGroup);

\* double modTime = timeMaxValue / 60.0; double

\* cmodTime = 1.0 - modTime;

\*

\* double value1 =

\* NegtiveScreened.get(region,ageGroup,timeMaxValue-

\* 1); double value2 =

\* \_Stage1UnScreened.get(region,ageGroup,

\* timeMaxValue-1); double value3 =

\* \_Stage2UnScreened.get(region,ageGroup,

\* timeMaxValue-1); double value4 =

\* \_Stage3UnScreened.get(region,ageGroup,

\* timeMaxValue-1); double value5 =

\* \_Stage4UnScreened.get(region,ageGroup,

\* timeMaxValue-1);

\*/

Population.incrementBy(value1 \* cmodTime, region,

ageGroup);

Stage1UnScreened.incrementBy(value2 \* cmodTime,

region, ageGroup);

Stage2UnScreened.incrementBy(value3 \* cmodTime,

region, ageGroup);

Stage3UnScreened.incrementBy(value4 \* cmodTime,

region, ageGroup);

Stage4UnScreened.incrementBy(value5 \* cmodTime,

region, ageGroup);

if (ageGroup != 11) {

Population.incrementBy(value1 \* modTime, region,

ageGroup + 1);

Stage1UnScreened.incrementBy(value2 \* modTime,

region, ageGroup + 1);

Stage2UnScreened.incrementBy(value3 \* modTime,

region, ageGroup + 1);

Stage3UnScreened.incrementBy(value4 \* modTime,

region, ageGroup + 1);

Stage4UnScreened.incrementBy(value5 \* modTime,

region, ageGroup + 1);

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986526</Id>

<Name><![CDATA[sc\_writeoutput]]></Name>

<X>-840</X><Y>520</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[excelFile\_ScreeningScenariosOutputs.writeFile();

for (int i = 1; i <= roundToInt(time()); i++) {

double totalCases = sc\_stage1[i] + sc\_stage2[i]

+ sc\_stage3[i] + sc\_stage4[i];

excelFile\_ScreeningScenariosOutputs

.setCellValue(sc\_year[i], "Sheet1", i + 1, 1);

excelFile\_ScreeningScenariosOutputs.setCellValue(

sc\_detection[i], "Sheet1", i + 1, 2);

excelFile\_ScreeningScenariosOutputs.setCellValue(

Math.round(((sc\_stage1[i] + sc\_stage2[i]) \* 100

/ totalCases) \* 100.0) / 100.0 + "%",

"Sheet1", i + 1, 3);

// excelFile\_ScreeningScenariosOutputs.setCellValue(sc\_stage2[i]

// \* 100 / totalCases, "Sheet1", i+1, 4);

excelFile\_ScreeningScenariosOutputs.setCellValue(

Math.round((sc\_stage3[i] \* 100 / totalCases)

\* 100.0) / 100.0 + "%",

"Sheet1", i + 1, 4);

excelFile\_ScreeningScenariosOutputs.setCellValue(

Math.round((sc\_stage4[i] \* 100 / totalCases)

\* 100.0) / 100.0 + "%",

"Sheet1", i + 1, 5);

excelFile\_ScreeningScenariosOutputs.setCellValue(

sc\_programcost[i], "Sheet1", i + 1, 6);

excelFile\_ScreeningScenariosOutputs.setCellValue(

sc\_treatmentcost[i], "Sheet1", i + 1, 7);

excelFile\_ScreeningScenariosOutputs.setCellValue(

Math.round(sc\_savedyears[i]), "Sheet1", i + 1,

8);

excelFile\_ScreeningScenariosOutputs.setCellValue(

Math.round(sc\_surrate[i] \* 100.0) + "%",

"Sheet1", i + 1, 9);

excelFile\_ScreeningScenariosOutputs.setCellValue(

Math.round(sc\_totalScreening[i]), "Sheet1",

i + 1, 10);

}

//fetch\_ScInputs();]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986528</Id>

<Name><![CDATA[savedlifes]]></Name>

<X>-560</X><Y>590</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[YearsSavedKingdom = YearsSaved.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY) -

YearsSaved.sum(0, INDEX\_CAN\_VARY) ;

// return YearsSaved.sum(0,INDEX\_CAN\_VARY);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986530</Id>

<Name><![CDATA[expectedSurvivalRate]]></Name>

<X>-560</X><Y>630</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[double expSur\_rate = (double) (expectedSur.sum(INDEX\_CAN\_VARY,INDEX\_CAN\_VARY)-

expectedSur.sum(0,INDEX\_CAN\_VARY) );

SurRateKingdom = expSur\_rate / (double) casesYear;

// return expSur\_rate / casesYear;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986532</Id>

<Name><![CDATA[readscreeningtable]]></Name>

<X>220</X><Y>-220</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[List<Double> screnning\_per = selectFrom(screening\_edits)

.list(screening\_edits.scr\_perc);

double[] arr = screnning\_per.stream()

.mapToDouble(Double::doubleValue).toArray();

// Convert int[] to double[]

double[] doubleArr = new double[arr.length];

for (int i = 0; i < arr.length; i++) {

doubleArr[i] = (double) arr[i];

}

// Set the screening\_percentage data

screening\_per.set(doubleArr);

// --- set Population Percentage to screening\_popPer @29 Jan

// SSN

List<Double> screnning\_popPer = selectFrom(screening\_edits)

.list(screening\_edits.pop\_perc);

double[] arrPopPer = screnning\_popPer.stream()

.mapToDouble(Double::doubleValue).toArray();

// Set the screening\_percentage data

screening\_popPer.set(arrPopPer);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986534</Id>

<Name><![CDATA[updateinvitesSc]]></Name>

<X>220</X><Y>-190</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// traceln(green, "Called on " + getYear() );

int getYear = getYear();

for (int i = 0; i <= 13; i++) {// region index

for (int age = 0; age <= 11; age++) {

double old\_total\_invites = totalInvite.get(i, age);

if (getYear == 2016)

totalInvite.set(screening\_per.get(i, age)

\* moh\_screening[0], i, age);

else if (getYear == 2017)

totalInvite.set(screening\_per.get(i, age)

\* moh\_screening[1], i, age);

else if (getYear == 2018)

totalInvite.set(screening\_per.get(i, age)

\* moh\_screening[2], i, age);

else if (getYear == 2019)

totalInvite.set(screening\_per.get(i, age)

\* moh\_screening[3], i, age);

else if (getYear == 2020)

totalInvite.set(screening\_per.get(i, age)

\* moh\_screening[4], i, age);

else if (getYear == 2021)

totalInvite.set(screening\_per.get(i, age)

\* moh\_screening[5], i, age);

else if (getYear == 2022)

totalInvite.set(screening\_per.get(i, age)

\* moh\_screening[6], i, age);

else if (getYear == 2023)

totalInvite.set(screening\_per.get(i, age)

\* moh\_screening[7], i, age);

else

f\_setTotalInvitesAfter2023(i, age);

}

}

check = totalInvite.sum(0, INDEX\_CAN\_VARY);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986536</Id>

<Name><![CDATA[f\_setTotalInvitesAfter2023]]></Name>

<X>220</X><Y>-160</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[region]]></Name>

<Type><![CDATA[int]]></Type>

</Parameter>

<Parameter>

<Name><![CDATA[age]]></Name>

<Type><![CDATA[int]]></Type>

</Parameter>

<Body><![CDATA[// screening type:- 0- Typical and 1 - based on Mamograms

// Shouldnt this be a for loop over region and age ?

double coveragePer = v\_screeningType == 0

? p\_InvitePer.get(region, age) : p\_InvitePerResScr.get(region, age);

double totalAssmp = TotAsymp.get(region, age);

double \_totalAssmp = \_TotAsymp.sum(region, age,

INDEX\_CAN\_VARY);

double cancerFreePop = CancerFree.sum(region, age);

double invitedPeople = v\_screeningType == 0? coveragePer

\* (totalAssmp + \_totalAssmp + cancerFreePop): coveragePer;

popCheck += (totalAssmp + \_totalAssmp);

totalInvite.set(invitedPeople, region, age);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986538</Id>

<Name><![CDATA[f\_ageMovementNegativeFlow]]></Name>

<X>-320</X><Y>800</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[stockList]]></Name>

<Type><![CDATA[ArrayList<HyperArray>]]></Type>

</Parameter>

<Body><![CDATA[for (HyperArray hyArr : stockList) {

for (int reg = 0; reg < 14; reg++) {

for (int timeSinceScr = 0; timeSinceScr < 60; timeSinceScr++) {

double[] hus = new double[12];

for (int age = 0; age < 12; age++) {

hus[age] = hyArr.get(reg, age,

timeSinceScr);

}

double[] oneFifthArr = IntStream.range(0, 12)

.mapToDouble(i -> hus[i] / 60.)

.toArray();

double[] finArr = new double[12];

for (int ind = 1; ind < hus.length - 1; ind++) {

finArr[ind] = hus[ind] - oneFifthArr[ind]

+ oneFifthArr[ind - 1];

}

finArr[0] = 59. / 60. \* hus[0];

finArr[hus.length - 1] = hus[hus.length - 1]

+ oneFifthArr[hus.length - 2];

for (int ageGroup = 0; ageGroup < 12; ageGroup++) {

hyArr.set(finArr[ageGroup], reg, ageGroup,

timeSinceScr);

}

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986540</Id>

<Name><![CDATA[f\_crossCheck]]></Name>

<X>440</X><Y>-240</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[ArrayList<HyperArray> stockList = new ArrayList<HyperArray>();

stockList.add(Population);

stockList.add(Stage1UnScreened);

stockList.add(Stage2UnScreened);

stockList.add(Stage3UnScreened);

stockList.add(Stage4UnScreened);

stockList.add(TotAsymp);

stockList.add(totalInvite);

stockList.add(CancerFree);

stockList.add(\_TotAsymp);

stockList.add(NegtiveScreened);

stockList.add(\_Stage1UnScreened);

stockList.add(\_Stage2UnScreened);

stockList.add(\_Stage3UnScreened);

stockList.add(\_Stage4UnScreened);

ArrayList<String> stockNameList = new ArrayList<String>();

stockNameList.add("Population");

stockNameList.add("Stage1UnScreened");

stockNameList.add("Stage2UnScreened");

stockNameList.add("Stage3UnScreened");

stockNameList.add("Stage4UnScreened");

stockNameList.add("TotAsymp");

stockNameList.add("totalInvite");

stockNameList.add("CancerFree");

stockNameList.add("\_TotAsymp");

stockNameList.add("NegtiveScreened");

stockNameList.add("\_Stage1UnScreened");

stockNameList.add("\_Stage2UnScreened");

stockNameList.add("\_Stage3UnScreened");

stockNameList.add("\_Stage4UnScreened");

for (int stk = 0; stk < stockList.size(); stk++) {

String printer = "";

printer += getYear() - 1 + ",";

printer += stockNameList.get(stk) + ",";

for (int age = 0; age < AgeGroup.size(); age++) {

if (stk < 8) {

printer += stockList.get(stk).get(0, age) + ",";

} else {

printer += stockList.get(stk).sum(0, age,

INDEX\_CAN\_VARY) + ",";

}

}

file\_crosscheck.println(printer);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986542</Id>

<Name><![CDATA[totalInvites]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2920</X><Y>190</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[age]]></Name>

<Type><![CDATA[int]]></Type>

</Parameter>

<Body><![CDATA[int countLoop = 11;

int start = 0;

if (chooseAge.isSelected()) {

countLoop = combobox2.getValueIndex();

start = combobox1.getValueIndex();

}

if (RegionNumber == 0) {

// Loop through each age group

// for (int age = start; age <= countLoop; age++) {

// Get the invite percentage for the current age group

// in Region 0

double invitesPerc = screeningScenario.get(RegionNumber,

age);

// Calculate the total population across all regions for

// the current age group

double totalPopulation = Population.get(RegionNumber,

age);

/\*

\* for (int reg = 1; reg <= 13; reg++) { totalPopulation

\* += Population.get(reg, age); }

\*/

// Calculate and set invites for Region 0 based on its

// population

Invites.set(

(int) (Population.get(0, age) \* invitesPerc), 0,

age);

// Distribute the invites across all regions based on

// their population

for (int reg = 1; reg <= 13; reg++) {

// Get the population for the current region

double population = Population.get(reg, age);

int numInvites = (int) Invites.get(0, age);

// Calculate the proportion of invites for the

// current region

int invitesForRegion = (int) ((numInvites

\* population) / totalPopulation);

Invites.set(invitesForRegion, reg, age);

double percentageRegion = Math.round(

invitesForRegion / population \* 1000.0)

/ 1000.0;

screeningScenario.set(percentageRegion, reg, age);

}

// }

}

else {

// for (int age = start; age <= countLoop; age++) {

// Get the population of the specific region

double population = Population.get(RegionNumber, age);

// Get the desired screening percentage for the specific

// region

double desiredScreeningPercentage = screeningScenario

.get(RegionNumber, age);

// Calculate the invites for the specific region based

// on the desired screening percentage

int invitesForRegion = (int) (desiredScreeningPercentage

\* population);

Invites.set(invitesForRegion, RegionNumber, age);

// Calculate the total invites for the kingdom after

// this change

int totalInvitesKingdom = 0;

for (int reg = 1; reg <= 13; reg++) {

totalInvitesKingdom += Invites.get(reg, age);

}

// Calculate and set the percentage for the specific

// region based on its invites

double percentageRegion = Math

.round(invitesForRegion / population \* 1000.0)

/ 1000.0;

screeningScenario.set(percentageRegion, RegionNumber,

age);

// Calculate and update the kingdom's overall screening

// percentage

double totalPopulationKingdom = Population.get(0, age);

/\*

\* for (int reg = 1; reg <= 13; reg++) {

\* totalPopulationKingdom += Population.get(reg, age); }

\*/

double kingdomPercentage = Math

.round(totalInvitesKingdom

/ totalPopulationKingdom \* 1000.0)

/ 1000.0;

screeningScenario.set(kingdomPercentage, 0, age);

Invites.set(totalInvitesKingdom, 0, age);

// }

}

/\*

\* else { for (int age = start; age <= countLoop; age++) {

\* int totalInvites = 0;

\*

\* for (int reg = 1; reg <= 13; reg++) { double population =

\* Population.get(RegionNumber, age); double invitesperc =

\* screeningScenario.get(RegionNumber, age); Invites.set(

\* (int)(invitesperc \* population), RegionNumber, age);

\* totalInvites += Invites.get(reg, age);

\* traceln(totalInvites); } double VisitKingdom = (double)

\* (totalInvites / kingpopAge(age)); traceln(VisitKingdom);

\* VisitKingdom = Math.round(VisitKingdom \* 1000.0) /

\* 1000.0; traceln(VisitKingdom);

\* screeningScenario.set(VisitKingdom, 0, age); double

\* invitesperc1 = screeningScenario.get(0, age);

\* Invites.set( (int)(kingpopAge(age) \* invitesperc1), 0,

\* age); }

\*

\* }

\*/

return (int) Invites.sum(RegionNumber, INDEX\_CAN\_VARY);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986544</Id>

<Name><![CDATA[f\_getTotalInviteText]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2540</X><Y>300</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int totalInnvites = 0;

if (RegionNumber == 0) {

for (int age = 0; age < AgeGroup.size(); age++) {

for (int reg = 1; reg < Region.size(); reg++) {

totalInnvites += Population.get(reg, age)

\* p\_InvitePer.get(reg, age);

}

}

} else {

for (int age = 0; age < AgeGroup.size(); age++) {

totalInnvites += Population.get(RegionNumber, age)

\* p\_InvitePer.get(RegionNumber, age);

}

}

v\_totalInnvites = (int) totalInnvites;]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986546</Id>

<Name><![CDATA[f\_extractData2025]]></Name>

<X>-260</X><Y>-200</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[file\_bcModelData2025.println(Population.getData());

file\_bcModelData2025.println(Stage1UnScreened.getData());

file\_bcModelData2025.println(Stage2UnScreened.getData());

file\_bcModelData2025.println(Stage3UnScreened.getData());

file\_bcModelData2025.println(Stage4UnScreened.getData());

file\_bcModelData2025.println(HtoS1.getData());]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986548</Id>

<Name><![CDATA[f\_calculatingLifeExpectancy]]></Name>

<X>-590</X><Y>1060</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// para1

int cumYearlyCases = (int) (yearlyCases.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY) -

yearlyCases.sum(0, INDEX\_CAN\_VARY));

int \_cumYearlyCases = (int) (\_yearlyCases.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY) -

\_yearlyCases.sum(0, INDEX\_CAN\_VARY));

if ( cumYearlyCases > 0) {

double noOfDeath = dv\_deadPeople.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY) -

dv\_deadPeople.sum(0, INDEX\_CAN\_VARY);

double noOfPeopleExpectedSur = dv\_noOfPeopleExpectedSur.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY) -

dv\_noOfPeopleExpectedSur.sum(0, INDEX\_CAN\_VARY);

double results = (noOfDeath + noOfPeopleExpectedSur)

/ (cumYearlyCases + \_cumYearlyCases);

return results;

} else {

return 0.0;

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986550</Id>

<Name><![CDATA[f\_collectBLData]]></Name>

<X>-760</X><Y>1280</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[List<Tuple> baseLineData = selectFrom(baseline).list();

for (Tuple t : baseLineData) {

ds\_YearlyCases.add(t.get(baseline.year),

t.get(baseline.cases\_detected));

ds\_YearlyOfLifeSaved.add(t.get(baseline.year),

t.get(baseline.years\_of\_life\_saved));

ds\_TotalScreenings.add(t.get(baseline.year),

t.get(baseline.total\_screenings));

ds\_ProgramCost.add(t.get(baseline.year),

t.get(baseline.program\_cost\_sar));

ds\_TreatmentCost.add(t.get(baseline.year),

t.get(baseline.cost\_of\_treatment\_sar));

ds\_ExpectedSurvivalRate.add(t.get(baseline.year),

t.get(baseline.expected\_survival\_rate) \* 100);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986552</Id>

<Name><![CDATA[f\_setNegaticeScreened]]></Name>

<X>-290</X><Y>450</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[List<Double> negScrList = selectFrom(

negavtive\_screened\_2025)

.list(negavtive\_screened\_2025.negative\_screened);

double[] negScrArr = negScrList.stream()

.mapToDouble(Double::doubleValue).toArray();

traceln(green, "NegScr value test: " + negScrArr[0]);

NegtiveScreened.set(negScrArr);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986554</Id>

<Name><![CDATA[f\_calcInvites]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2540</X><Y>190</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[if (RegionNumber == 0) {

// check and apply if text and parameter value != then

// apply

for (int age = 0; age < AgeGroup.size(); age++) {

for (int reg = 0; reg < Region.size(); reg++) {

if (p\_InvitePer.get(reg,

age) != (c\_ScrPerEditBoxes.get(age)

.getDoubleValue() / 100.)) {

p\_InvitePer.set(

c\_ScrPerEditBoxes.get(age)

.getDoubleValue() / 100.,

reg, age);

}

}

}

// calculation

for (int age = 0; age < AgeGroup.size(); age++) {

int pop = 0;

int scrPop = 0;

for (int reg = 1; reg < Region.size(); reg++) {

scrPop += Population.get(reg, age)

\* p\_InvitePer.get(reg, age);

pop += Population.get(reg, age);

}

p\_InvitePer.set(zidz(scrPop, pop), 0, age);

}

} else {

// first apply the coverage to specific region

for (int age = 0; age < AgeGroup.size(); age++) {

p\_InvitePer.set(

c\_ScrPerEditBoxes.get(age).getDoubleValue()

/ 100.,

RegionNumber, age);

}

// second calc the pop and scrpop then adjust coverage

// for kingdom

for (int age = 0; age < AgeGroup.size(); age++) {

int pop = 0;

int scrPop = 0;

for (int reg = 1; reg < Region.size(); reg++) {

scrPop += Population.get(reg, age)

\* p\_InvitePer.get(reg, age);

pop += Population.get(reg, age);

}

p\_InvitePer.set(zidz(scrPop, pop), 0, age);

}

}

textRepresentation();]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986556</Id>

<Name><![CDATA[textRepresentation]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2700</X><Y>190</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// text representation

for (int index = 0; index < c\_ScrPerEditBoxes

.size(); index++) {

ShapeTextField edbx = c\_ScrPerEditBoxes.get(index);

String valueToSet = String.format("%.2f",

(p\_InvitePer.get(RegionNumber, index) \* 100.));

if (edbx.isEnabled()) {

edbx.setText(valueToSet);

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986558</Id>

<Name><![CDATA[needMamograms]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2700</X><Y>150</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[updateinvitesSc(); // update the total invites

int neededMamograms = (int) (roundToInt(

totalInvite.sum(0, INDEX\_CAN\_VARY))

/ (FTE / procedureT)) + 1;

double noOfScreeningWeCanDo = slider3.getIntValue()

\* (FTE / procedureT);]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986560</Id>

<Name><![CDATA[f\_comboxEnabler]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2540</X><Y>340</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int startIndex = combobox1.getValueIndex();

int endIndex = combobox2.getValueIndex();

if ((endIndex - startIndex) < 0)

error("FromAge is greater than ToAge");

for (int i = 0; i < AgeGroup.size(); i++) {

if (i >= startIndex && i <= endIndex) {

c\_ScrPerEditBoxes.get(i).setText(String.format(

"%.2f", c\_covRateDefault.get(i) \* 100.0));

// setValueToDefault();

c\_ScrPerEditBoxes.get(i).setEnabled(true);

} else {

c\_ScrPerEditBoxes.get(i).setText("0.0");

c\_ScrPerEditBoxes.get(i).setEnabled(false);

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986562</Id>

<Name><![CDATA[f\_initResourceScreening]]></Name>

<X>3780</X><Y>1480</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[

// Step 1: set the screening % based on coverage rate

for (int age = 0; age < AgeGroup.size(); age++) {

for (int reg = 0; reg < Region.size(); reg++) {

double invitedPop = (main.p\_ExpName.equals("optquest") ? main.p\_covRateArr[age]:

main.c\_optParam.get(age))

\* Population.get(reg, age); // 0//(main.c\_optParam.get(age))

double perValue = invitedPop / (c\_mamograms.get(reg)

\* (FTE / procedureT));

p\_screenPerResourceMethod.set(perValue \* 100, reg,

age);

if (reg == 0) {

//c\_SliderResScreening.get(age)

// .setValue((int) (perValue \* 100));

}

}

}

//set the invite people

f\_getTotalInviteResScr();]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986564</Id>

<Name><![CDATA[f\_calcScreenPer]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>3790</X><Y>1550</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int regionNumber = combobox10.getValueIndex();

if (regionNumber == 0) {

// check and apply if text and parameter value != then

// apply

for (int age = 0; age < AgeGroup.size(); age++) {

for (int reg = 0; reg < Region.size(); reg++) {

if (p\_screenPerResourceMethod.get(reg,

age) != c\_SliderResScreening.get(age)

.getValue()) {

p\_screenPerResourceMethod

.set(c\_SliderResScreening.get(age)

.getValue(), reg, age);

}

}

}

} else {

// first apply the coverage to specific region

for (int age = 0; age < AgeGroup.size(); age++) {

p\_screenPerResourceMethod.set(

c\_SliderResScreening.get(age).getValue(),

regionNumber, age);

}

}

// second calc the pop and scrpop then adjust coverage for

// kingdom

for (int age = 0; age < AgeGroup.size(); age++) {

double cumPer = 0.0;

for (int reg = 1; reg < Region.size(); reg++) {

cumPer += p\_screenPerResourceMethod.get(reg, age);

}

p\_screenPerResourceMethod.set(zidz(cumPer, 13), 0, age);

}

// update invite percentage

f\_getTotalInviteResScr();]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986566</Id>

<Name><![CDATA[f\_getTotalInviteResScr]]></Name>

<X>3800</X><Y>1580</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int reg = 0; reg < Region.size(); reg++) {

double noOfScreeningWeCanDo = c\_mamograms.get(reg)

\* (FTE / procedureT); // add utili

for (int age = 0; age < AgeGroup.size(); age++) {

double invPeople = noOfScreeningWeCanDo

\* (p\_screenPerResourceMethod.get(reg, age)

/ 100.0);

p\_InvitePerResScr.set(invPeople, reg, age);//cov rate

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986568</Id>

<Name><![CDATA[f\_calcInvitesIndv]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2920</X><Y>280</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[region]]></Name>

<Type><![CDATA[int]]></Type>

</Parameter>

<Parameter>

<Name><![CDATA[age]]></Name>

<Type><![CDATA[int]]></Type>

</Parameter>

<Parameter>

<Name><![CDATA[value]]></Name>

<Type><![CDATA[double]]></Type>

</Parameter>

<Body><![CDATA[if (value > 100.0) {

getExperimentHost().showMessageDialog(

"Please provide less than 100%");

} else {

p\_InvitePerIndv.set(value / 100.0, region, age);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986570</Id>

<Name><![CDATA[f\_ageSlider]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>3780</X><Y>1520</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[ageIndex]]></Name>

<Type><![CDATA[int]]></Type>

</Parameter>

<Body><![CDATA[for (int i = 0; i < AgeGroup.size(); i++) {

int TotalPerScr = c\_TotalPerScr

.get(combobox10.getValueIndex());

int slideMamograms = c\_mamograms

.get(combobox10.getValueIndex());

if (i != ageIndex) {

ShapeSlider sl = c\_SliderResScreening.get(i);

double otherCumPer = 0.0;

for (int age = 0; age < c\_SliderResScreening

.size(); age++) {

if (i != age) {

otherCumPer += c\_SliderResScreening.get(age)

.getIntValue();

}

}

int getMin = min((int) (TotalPerScr - otherCumPer),

(int) (Population.sum(regionNumber, i)

\* 100. / (slideMamograms

\* (FTE / procedureT))));

sl.setRange(0, getMin);

// set Max TextTotPercScr

c\_sliderMaxText.get(i).setText(getMin);

if (getMin == 0) {

sl.setEnabled(false);

} else {

sl.setEnabled(true);

}

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986572</Id>

<Name><![CDATA[f\_initResourceScreeningbkp]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>4040</X><Y>1480</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// set the region mamograms

List<Tuple> rows = selectFrom(mamograms).list();

for (Tuple row : rows) {

c\_mamograms.put(row.get(mamograms.rank),

row.get(mamograms.no\_of\_mamograms));

}

// setting the value begins here

p\_oldScreenings = sliderMamograms.getIntValue()

\* (FTE / procedureT);

v\_TotalPerScr = (int) min(100.0,

Population.sum(regionNumber, INDEX\_CAN\_VARY) \* 100.

/ (sliderMamograms.getIntValue()

\* (FTE / procedureT)));

// Step 1: set the screening % based on coverage rate

for (int age = 0; age < AgeGroup.size(); age++) {

for (int reg = 0; reg < Region.size(); reg++) {

double invitedPop = c\_ScrPerEditBoxes.get(age)

.getDoubleValue() \* Population.get(0, age);

double perValue = invitedPop

/ (sliderMamograms.getIntValue()

\* (FTE / procedureT));

p\_screenPerResourceMethod.set(perValue \* 100, reg,

age);

if (reg == 0) {

c\_SliderResScreening.get(age)

.setValue(perValue \* 100);

}

}

}

// Step 2: set the range for the slider and maximum value

for (int i = 0; i < AgeGroup.size(); i++) {

ShapeSlider sl = c\_SliderResScreening.get(i);

double otherCumPer = 0.0;

for (int age = 0; age < c\_SliderResScreening

.size(); age++) {

if (i != age) {

otherCumPer += c\_SliderResScreening.get(age)

.getIntValue();

}

}

sl.setRange(0, (int) (v\_TotalPerScr - otherCumPer));

// set Max Text

c\_sliderMaxText.get(i)

.setText(v\_TotalPerScr - otherCumPer);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986574</Id>

<Name><![CDATA[f\_getTotalInviteResScrbkp]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>4040</X><Y>1580</Y>

<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[// Step 1 : Calculate noOfScreenings we can do

double noOfScreeningWeCanDo = c\_mamograms.get(regionNumber)

\* (FTE / procedureT); // add utili

// sliderMamograms.getIntValue()

traceln("sliderMamograms: "

+ sliderMamograms.getIntValue());

// Step 2 : Calculate screening coverage rate based on user

// given % for ageGroups

for (int age = 0; age < AgeGroup.size(); age++) {

double cumInvitePop = 0.0;

double cumPop = 0.0;

for (int reg = 0; reg < Region.size(); reg++) {

double invPeople = noOfScreeningWeCanDo \* zidz(

p\_screenPerResourceMethod.get(reg, age),

100.0);

// cumInvitePop += invPeople;

// cumPop += Population.get(reg, age);

// slider1.getIntValue()/100.\*slider2.getIntValue()\*ScrperMam/Pop.get(0)

double value = p\_screenPerResourceMethod.get(reg,

age) / 100. \* noOfScreeningWeCanDo

/ Population.get(reg, age);

// 1 - Mulham code (Population.sum(INDEX\_CAN\_VARY,

// age)-Population.get(0, age));

p\_InvitePerResScr.set(value, reg, age);

// invPeople / Population.get(reg, age)

}

// p\_InvitePerResScr.set( cumInvitePop /

// Population.get(0, age) , 0, age);//set for KSA by

// calculation

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986576</Id>

<Name><![CDATA[f\_initCovRegionTab]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>3110</X><Y>280</Y>

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<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int reg = 0; reg < Region.size(); reg++) {

for (int age = 0; age < AgeGroup.size(); age++) {

p\_InvitePerIndv.set(

c\_ScrPerEditBoxes.get(age).getDoubleValue()

/ 100.,

reg, age);

}

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986578</Id>

<Name><![CDATA[f\_initCalcKSA]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

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<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[for (int age = 0; age < AgeGroup.size(); age++) {

double cumPer = 0.0;

for (int reg = 1; reg < Region.size(); reg++) {

cumPer += p\_InvitePerIndv.get(reg, age);

}

p\_InvitePerIndv.set(cumPer / 13.0, 0, age);

}

p\_InvitePer.set(p\_InvitePerIndv.getData());]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[Color]]></ReturnType>

<Id>1753022986580</Id>

<Name><![CDATA[f\_interpolateColor]]></Name>

<X>1060</X><Y>1400</Y>

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<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Parameter>

<Name><![CDATA[startColor]]></Name>

<Type><![CDATA[Color]]></Type>

</Parameter>

<Parameter>

<Name><![CDATA[endColor]]></Name>

<Type><![CDATA[Color]]></Type>

</Parameter>

<Parameter>

<Name><![CDATA[fraction]]></Name>

<Type><![CDATA[float]]></Type>

</Parameter>

<Body><![CDATA[float r = startColor.getRed() + fraction

\* (endColor.getRed() - startColor.getRed());

float g = startColor.getGreen() + fraction

\* (endColor.getGreen() - startColor.getGreen());

float b = startColor.getBlue() + fraction

\* (endColor.getBlue() - startColor.getBlue());

float a = startColor.getAlpha() + fraction

\* (endColor.getAlpha() - startColor.getAlpha());

return new Color(Math.max(0, Math.min(255, (int) r)),

Math.max(0, Math.min(255, (int) g)),

Math.max(0, Math.min(255, (int) b)),

Math.max(0, Math.min(255, (int) a)));]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>VOID</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

<Id>1753022986582</Id>

<Name><![CDATA[f\_stopAccessToParam]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

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<Label><X>10</X><Y>0</Y></Label>

<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[radio.setEnabled(false);

radio1.setEnabled(false);

radio2.setEnabled(false);

radio4.setEnabled(false);

chooseAge.setEnabled(false);

combobox1.setEnabled(false);

combobox2.setEnabled(false);

radio3.setEnabled(false);

checkboxEqDis.setEnabled(false);

editboxEqDis.setEnabled(false);

editbox2.setEnabled(false);

for (ShapeTextField sh : c\_ScrPerEditBoxes){

if (sh.isEnabled()){

sh.setEnabled(false);}

}

for (ShapeTextField shr : c\_ScrPerEditBoxesReg){

if (shr.isEnabled()){

shr.setEnabled(false);}

}

//resource

combobox10.setEnabled(false);

sliderMamograms.setEnabled(false);

editbox3.setEnabled(false);

for(ShapeSlider sl : c\_SliderResScreening){

sl.setEnabled(false);

}]]></Body>

</Function>

<Function AccessType="default" StaticFunction="false">

<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[double]]></ReturnType>

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<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[return ds\_LifeExp.getYMean();]]></Body>

</Function>

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<ReturnModificator>RETURNS\_VALUE</ReturnModificator>

<ReturnType><![CDATA[int]]></ReturnType>

<Id>1753022986586</Id>

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<X>50</X><Y>1170</Y>

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<PublicFlag>false</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>true</ShowLabel>

<Body><![CDATA[int totalInvites = 0;

int maxScreenings = (int)Math.ceil( p\_TotalKSAMamo \* (FTE/procedureT) );

for (int age = 0; age < AgeGroup.size(); age++) {

for (int reg = 1; reg < Region.size(); reg++) {

totalInvites += Population.get(reg, age)

\* c\_optParam.get(age);

}

}

if (totalInvites > maxScreenings){

return 1;

}else{

return 0;

}]]></Body>

</Function>

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<Unit Class="TimeUnits"><![CDATA[YEAR]]></Unit>

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<Id>1753022986237</Id>

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<Id>1753022986243</Id>

<Name><![CDATA[ds\_TotalScreenings]]></Name>

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10- Tabuk

11- Asir

12- Jazan

13- Najran]]></Text>

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3- ER

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6- Jawf

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<Id>1753022986782</Id>

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<Id>1753022986788</Id>

<Name><![CDATA[round70]]></Name>

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<LineColor>-16777216</LineColor>

<LineMaterial>null</LineMaterial>

<LineStyle>SOLID</LineStyle>

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<Rotation>0.0</Rotation>

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<FillMaterial>null</FillMaterial>

<ArcRadius>10</ArcRadius>

</RoundedRectangle>

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<Id>1753022986790</Id>

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<Id>1753022986792</Id>

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<Z>0</Z>

<Rotation>0.0</Rotation>

<Color>-16777216</Color>

<Text><![CDATA[text]]></Text>

<TextCode><![CDATA["Total Screening invite: "

+ totalInvite.sum(INDEX\_CAN\_VARY, INDEX\_CAN\_VARY)]]></TextCode>

<Font>

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<Text>

<Id>1753022986794</Id>

<Name><![CDATA[text37]]></Name>

<X>1780.5</X><Y>530.5</Y>

<Label><X>0</X><Y>-10</Y></Label>

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<Rotation>0.0</Rotation>

<Color>-16777216</Color>

<Text><![CDATA[ExpectedSurvivalRate]]></Text>

<TextCode><![CDATA["ExpectedSurvivalRate KSA: "

+ ExpectedSurvivalRate.sum(0, INDEX\_CAN\_VARY)]]></TextCode>

<Font>

<Name>SansSerif</Name>

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<Alignment>LEFT</Alignment>

</Text>

<Text>

<Id>1753022986796</Id>

<Name><![CDATA[text38]]></Name>

<X>1780.5</X><Y>570.5</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<EmbeddedIcon>false</EmbeddedIcon>

<Z>0</Z>

<Rotation>0.0</Rotation>

<Color>-16777216</Color>

<Text><![CDATA[BreastCancer Cases]]></Text>

<TextCode><![CDATA["BreastCancerCases KSA: "

+ BreastCancerCases.sum(0, INDEX\_CAN\_VARY)]]></TextCode>

<Font>

<Name>SansSerif</Name>

<Size>16</Size>

<Style>0</Style>

</Font>

<Alignment>LEFT</Alignment>

</Text>

<Text>

<Id>1753022986798</Id>

<Name><![CDATA[text39]]></Name>

<X>1780.5</X><Y>610.5</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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<Rotation>0.0</Rotation>

<Color>-16777216</Color>

<Text><![CDATA[Expected Survivals]]></Text>

<TextCode><![CDATA["ExpectedSurvivals KSA: "

+ ExpectedSurvivals.sum(0, INDEX\_CAN\_VARY)]]></TextCode>

<Font>

<Name>SansSerif</Name>

<Size>16</Size>

<Style>0</Style>

</Font>

<Alignment>LEFT</Alignment>

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<Rectangle>

<Id>1753022986800</Id>

<Name><![CDATA[rectangle3]]></Name>

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<Label><X>10</X><Y>10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<LineStyle>SOLID</LineStyle>

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<Id>1753022986802</Id>

<Name><![CDATA[text357]]></Name>

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<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<EmbeddedIcon>false</EmbeddedIcon>

<Z>0</Z>

<Rotation>0.0</Rotation>

<Color>-16777216</Color>

<Text><![CDATA[// this is not right way to do it]]></Text>

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<Name>SansSerif</Name>

<Size>16</Size>

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</Text>

<Rectangle>

<Id>1753022986804</Id>

<Name><![CDATA[rectangle7]]></Name>

<X>-210</X><Y>50</Y>

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<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<FillMaterial>null</FillMaterial>

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<Text>

<Id>1753022986806</Id>

<Name><![CDATA[text360]]></Name>

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<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<Z>0</Z>

<Rotation>0.0</Rotation>

<Color>-16777216</Color>

<Text><![CDATA[text]]></Text>

<TextCode><![CDATA[totalInvite.sum(0, INDEX\_CAN\_VARY)]]></TextCode>

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<Name>SansSerif</Name>

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<Alignment>LEFT</Alignment>

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<Text>

<Id>1753022986808</Id>

<Name><![CDATA[populationRegions3]]></Name>

<X>1990</X><Y>1360</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<Rotation>0.0</Rotation>

<Color>-4144960</Color>

<Text><![CDATA[Mortalities]]></Text>

<TextCode><![CDATA[(int) Math.ceil(

CancerMortalities.sum(RegionNumber, INDEX\_CAN\_VARY))]]></TextCode>

<Font>

<Name>Cairo</Name>

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</Font>

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<Control Type="ComboBox">

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<Id>1753022986810</Id>

<Name><![CDATA[combobox5]]></Name>

<X>2034</X><Y>1260</Y>

<Label><X>0</X><Y>-10</Y></Label>

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<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<FillColor>-15853009</FillColor>

<TextColor>-1</TextColor>

<Enabled>true</Enabled>

<ActionCode><![CDATA[RegionNumber = combobox5.getValueIndex();

regionColors();

// getSelectedPopulation();

yearlyCost();

yearlyCasesfunc();

// VistsSlider.setValueToDefault();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<Editable>false</Editable>

<Button><![CDATA[المملكة العربية السعودية]]></Button>

<Button><![CDATA[الرياض]]></Button>

<Button><![CDATA[مكة المكرمة]]></Button>

<Button><![CDATA[الشرقية]]></Button>

<Button><![CDATA[المدينة المنورة]]></Button>

<Button><![CDATA[الباحة]]></Button>

<Button><![CDATA[الجوف]]></Button>

<Button><![CDATA[الشمالية]]></Button>

<Button><![CDATA[القصيم]]></Button>

<Button><![CDATA[حايل]]></Button>

<Button><![CDATA[تبوك]]></Button>

<Button><![CDATA[عسير]]></Button>

<Button><![CDATA[جازان]]></Button>

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</Control>

<Text>

<Id>1753022986812</Id>

<Name><![CDATA[populationRegions31]]></Name>

<X>1990</X><Y>1250</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<Color>-8355712</Color>

<Text><![CDATA[Region:]]></Text>

<TextCode><![CDATA[//(int) Math.ceil (yearlyCases.sum(RegionNumber,INDEX\_CAN\_VARY))]]></TextCode>

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<Name>Cairo</Name>

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<Alignment>CENTER</Alignment>

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<Id>1753022986814</Id>

<Name><![CDATA[checkboxAgeScreenFreq]]></Name>

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<PresentationFlag>true</PresentationFlag>

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<Enabled>true</Enabled>

</BasicProperties>

<ExtendedProperties>

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<LabelText><![CDATA[Age Group Specific Screening Frequency]]></LabelText>

<DefaultValueCode><![CDATA[false]]></DefaultValueCode>

<LinkTo>false</LinkTo>

</ExtendedProperties>

</Control>

<Text>

<Id>1753022986816</Id>

<Name><![CDATA[regionTitle17]]></Name>

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<X>1920</X><Y>1200</Y>

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<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<EmbeddedIcon>false</EmbeddedIcon>

<Z>0</Z>

<Rotation>0.0</Rotation>

<Color>-16777216</Color>

<Text><![CDATA[ASR]]></Text>

<TextCode><![CDATA[(int) Math.ceil(ASR.sum(RegionNumber, INDEX\_CAN\_VARY))]]></TextCode>

<Font>

<Name>Cairo</Name>

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<Alignment>CENTER</Alignment>

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<Control Type="Button">

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<Name><![CDATA[button2]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2690</X><Y>90</Y>

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<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<TextColor/>

<Enabled>true</Enabled>

<ActionCode><![CDATA[needMamograms();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

<Font Name="Dialog" Size="11" Style="0"/>

<LabelText><![CDATA[check Mamograms]]></LabelText>

</ExtendedProperties>

</Control>

<Control Type="RadioButtons">

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<Id>1753022986820</Id>

<Name><![CDATA[radio]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>2620</X><Y>575</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D3D</DrawMode>

<BasicProperties Width="340" Height="60">

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<TextColor>-1</TextColor>

<Enabled>true</Enabled>

<ActionCode><![CDATA[if (self.getValue() == 0) {

homepage1.navigateTo();

radio1.setValue(0);

v\_screeningType = 0;

} else {

radio1.setValue(1);

homepage2.navigateTo();

v\_screeningType = 1;

}]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

<Font Name="Dialog" Size="16" Style="0"/>

<DefaultValueCode><![CDATA[0]]></DefaultValueCode>

<Orientation>HORIZONTAL</Orientation>

<Button><![CDATA[Coverage Rate]]></Button>

<Button><![CDATA[Resources]]></Button>

<LinkTo>false</LinkTo>

</ExtendedProperties>

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<Control Type="ComboBox">

<EmbeddedIcon>false</EmbeddedIcon>

<Id>1753022986822</Id>

<Name><![CDATA[combobox1]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>3320</X><Y>590</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D3D</DrawMode>

<BasicProperties Width="124" Height="26">

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<FillColor>-15853009</FillColor>

<TextColor>-1</TextColor>

<Enabled>true</Enabled>

<ActionCode><![CDATA[if (self.isEnabled()) {

FageGroup = combobox1.getValueIndex();

}

f\_comboxEnabler();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<Editable>false</Editable>

<Button><![CDATA[20-24]]></Button>

<Button><![CDATA[25-29]]></Button>

<Button><![CDATA[30-34]]></Button>

<Button><![CDATA[35-39]]></Button>

<Button><![CDATA[40-44]]></Button>

<Button><![CDATA[45-49]]></Button>

<Button><![CDATA[50-54]]></Button>

<Button><![CDATA[55-59]]></Button>

<Button><![CDATA[60-64]]></Button>

<Button><![CDATA[65-69]]></Button>

<Button><![CDATA[70-74]]></Button>

<Button><![CDATA[75+]]></Button>

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<Name><![CDATA[combobox2]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>3505</X><Y>590</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<FillColor>-15853009</FillColor>

<TextColor>-1</TextColor>

<Enabled>true</Enabled>

<ActionCode><![CDATA[if (self.isEnabled()) {

LageGroup = combobox2.getValueIndex();

}

f\_comboxEnabler();

]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

<Font Name="Dialog" Size="11" Style="0"/>

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<Button><![CDATA[25-29]]></Button>

<Button><![CDATA[30-34]]></Button>

<Button><![CDATA[35-39]]></Button>

<Button><![CDATA[40-44]]></Button>

<Button><![CDATA[45-49]]></Button>

<Button><![CDATA[50-54]]></Button>

<Button><![CDATA[55-59]]></Button>

<Button><![CDATA[60-64]]></Button>

<Button><![CDATA[65-69]]></Button>

<Button><![CDATA[70-74]]></Button>

<Button><![CDATA[75+]]></Button>

<LinkTo>false</LinkTo>

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<Control Type="CheckBox">

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<Id>1753022986826</Id>

<Name><![CDATA[chooseAge]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>3460</X><Y>550</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<BasicProperties Width="70" Height="27">

<EmbeddedIcon>false</EmbeddedIcon>

<TextColor>-1</TextColor>

<Enabled>true</Enabled>

<ActionCode><![CDATA[if (self.isSelected() == true) {

combobox1.setEnabled(true);

combobox2.setEnabled(true);

combobox1.setValueIndex(4);

combobox2.setValueIndex(9);

f\_comboxEnabler();

}

else {

combobox1.setEnabled(false);

combobox2.setEnabled(false);

combobox1.setValueIndex(0);

combobox2.setValueIndex(11);

f\_comboxEnabler();

}]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

<Font Name="Dialog" Size="22" Style="2"/>

<LabelText><![CDATA[Yes]]></LabelText>

<DefaultValueCode><![CDATA[true]]></DefaultValueCode>

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</Control>

<Control Type="Slider">

<EmbeddedIcon>false</EmbeddedIcon>

<Id>1753022986828</Id>

<Name><![CDATA[sliderMamograms]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>3162</X><Y>1318</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D3D</DrawMode>

<BasicProperties Width="170" Height="30">

<EmbeddedIcon>false</EmbeddedIcon>

<Enabled>true</Enabled>

<ActionCode><![CDATA[// trigger this first

if (v\_screeningType == 0) {

f\_initResourceScreening();

}

c\_mamograms.put(regionNumber, self.getIntValue());

int TotalPerScr = (int) min(100.0,

Population.sum(regionNumber, INDEX\_CAN\_VARY) \* 100.

/ (self.getIntValue()

\* (FTE / procedureT)));

c\_TotalPerScr.replace(regionNumber, TotalPerScr);

// methodology

int TotPercScrTemp = (int) min(100.0,

Population.sum(regionNumber, INDEX\_CAN\_VARY) \* 100.

/ (self.getIntValue()

\* (FTE / procedureT)));

// set value

if (p\_oldScreenings < self.getIntValue()

\* (FTE / procedureT)) {

for (int i = 0; i < AgeGroup.size(); i++) {

ShapeSlider sl = c\_SliderResScreening.get(i);

// double newValue = sl.getIntValue() \*

// p\_oldScreenings / (self.getIntValue() \* (FTE /

// procedureT));

double newValue = sl.getIntValue()

\* c\_oldScreenings.get(regionNumber)

/ (self.getIntValue() \* (FTE / procedureT));

sl.setValue((int) newValue);

}

}

// set range

for (int i = 0; i < AgeGroup.size(); i++) {

ShapeSlider sl = c\_SliderResScreening.get(i);

double otherCumPer = 0.0;

for (int age = 0; age < c\_SliderResScreening

.size(); age++) {

if (i != age) {

otherCumPer += c\_SliderResScreening.get(age)

.getIntValue();

}

}

int getMin = min((int) (TotPercScrTemp - otherCumPer),

(int) (Population.get(regionNumber, i) \* 100.

/ (self.getIntValue()

\* (FTE / procedureT))));

sl.setRange(0, getMin);

// set Max Text

c\_sliderMaxText.get(i).setText(getMin);

if (getMin == 0) {

sl.setVisible(false);

} else {

sl.setVisible(true);

}

}

// again set the old screening

// 1 - p\_oldScreenings = self.getIntValue() \* (FTE /

// procedureT);

c\_oldScreenings.put(regionNumber,

(int) (self.getIntValue() \* (FTE / procedureT)));]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<TextCode><![CDATA[sliderMamograms.getMin()]]></TextCode>

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<Text>

<Id>1753022986832</Id>

<Name><![CDATA[text9]]></Name>

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<Text><![CDATA[max]]></Text>

<TextCode><![CDATA[sliderMamograms.getMax()]]></TextCode>

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<Text>

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<Name><![CDATA[text10]]></Name>

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<ShowLabel>false</ShowLabel>

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<EmbeddedIcon>false</EmbeddedIcon>

<Z>0</Z>

<Rotation>0.0</Rotation>

<Color>-1</Color>

<Text><![CDATA[value]]></Text>

<TextCode><![CDATA[sliderMamograms.getValue()]]></TextCode>

<Font>

<Name>SansSerif</Name>

<Size>12</Size>

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<TextColor>-1</TextColor>

<Enabled>true</Enabled>

<ActionCode><![CDATA[regionNumber = self.getValueIndex();

RegionNumber = regionNumber;

regionColors();

// textRepresentation1();

sliderMamograms.setValue(

c\_mamograms.get(self.getValueIndex()), true);]]></ActionCode>

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<Button><![CDATA[مكة المكرمة]]></Button>

<Button><![CDATA[الشرقية]]></Button>

<Button><![CDATA[المدينة المنورة]]></Button>

<Button><![CDATA[الباحة]]></Button>

<Button><![CDATA[الجوف]]></Button>

<Button><![CDATA[الشمالية]]></Button>

<Button><![CDATA[القصيم]]></Button>

<Button><![CDATA[حايل]]></Button>

<Button><![CDATA[تبوك]]></Button>

<Button><![CDATA[عسير]]></Button>

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homepage1.navigateTo();

radio.setValue(0);

v\_screeningType = 0;

} else {

radio.setValue(1);

homepage2.navigateTo();

v\_screeningType = 1;

}]]></ActionCode>

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<PublicFlag>true</PublicFlag>

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<Name><![CDATA[t35]]></Name>

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<Id>1753022986850</Id>

<Name><![CDATA[t38]]></Name>

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<X>2920</X><Y>885</Y>

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f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

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<MinValue><![CDATA[0]]></MinValue>

<MaxValue><![CDATA[1]]></MaxValue>

<LinkTo>false</LinkTo>

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<Name><![CDATA[editbox22]]></Name>

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<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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f\_calcInvites();

f\_getTotalInviteText();

]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

<Font Name="Dialog" Size="12" Style="0"/>

<DefaultValueCode><![CDATA[Double.toString(p\_InvitePer.get(RegionNumber, 2) \* 100.)]]></DefaultValueCode>

<MinValue><![CDATA[0]]></MinValue>

<MaxValue><![CDATA[1]]></MaxValue>

<LinkTo>false</LinkTo>

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<Name><![CDATA[editbox21]]></Name>

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f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

<Font Name="Dialog" Size="12" Style="0"/>

<DefaultValueCode><![CDATA[Double.toString(p\_InvitePer.get(RegionNumber, 1) \* 100.)]]></DefaultValueCode>

<MinValue><![CDATA[0]]></MinValue>

<MaxValue><![CDATA[1]]></MaxValue>

<LinkTo>false</LinkTo>

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<Name><![CDATA[editbox23]]></Name>

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f\_calcInvites();

f\_getTotalInviteText();

]]></ActionCode>

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<MaxValue><![CDATA[1]]></MaxValue>

<LinkTo>false</LinkTo>

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f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

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<MaxValue><![CDATA[1]]></MaxValue>

<LinkTo>false</LinkTo>

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f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<MaxValue><![CDATA[1]]></MaxValue>

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<TextColor>-1</TextColor>

<Enabled>false</Enabled>

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f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<MaxValue><![CDATA[1]]></MaxValue>

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<Name><![CDATA[editbox27]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

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<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<MaxValue><![CDATA[1]]></MaxValue>

<LinkTo>false</LinkTo>

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<Name><![CDATA[editbox28]]></Name>

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<X>3293</X><Y>808</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

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<TextColor>-1</TextColor>

<Enabled>false</Enabled>

<ActionCode><![CDATA[// ssn-16June

f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<MaxValue><![CDATA[1]]></MaxValue>

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<PresentationFlag>true</PresentationFlag>

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<Name><![CDATA[t43]]></Name>

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<X>3395</X><Y>810</Y>

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<Id>1753022986884</Id>

<Name><![CDATA[t44]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

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<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<TextColor>-1</TextColor>

<Enabled>false</Enabled>

<ActionCode><![CDATA[// ssn-16June

f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<PresentationFlag>true</PresentationFlag>

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<TextColor>-1</TextColor>

<Enabled>false</Enabled>

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f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

<Font Name="Dialog" Size="12" Style="0"/>

<DefaultValueCode><![CDATA[Double.toString(p\_InvitePer.get(RegionNumber, 10) \* 100.)]]></DefaultValueCode>

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<MaxValue><![CDATA[1]]></MaxValue>

<LinkTo>false</LinkTo>

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<Name><![CDATA[editbox31]]></Name>

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<FillColor>-15853009</FillColor>

<TextColor>-1</TextColor>

<Enabled>false</Enabled>

<ActionCode><![CDATA[// ssn-16June

f\_calcInvites();

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<MaxValue><![CDATA[1]]></MaxValue>

<LinkTo>false</LinkTo>

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<Id>1753022986892</Id>

<Name><![CDATA[combobox4]]></Name>

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<X>2895</X><Y>90</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D3D</DrawMode>

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<FillColor>-15324597</FillColor>

<TextColor>-1</TextColor>

<Enabled>true</Enabled>

<ActionCode><![CDATA[RegionNumber = combobox4.getValueIndex();

on = false;

// totalInvites();

regionColors();

// SETTING DEFAULT VALUES FOR EVERY REGION

getSelectedPopulation();

// VistsSlider.setValueToDefault();

slider2.setValueToDefault();

slider3.setValueToDefault();

// percDef();

ftes();

int countLoop = 0;

int start = 0;

if (chooseAge.isSelected() == true) {

countLoop = abs(combobox1.getValueIndex()

- combobox2.getValueIndex());

start = combobox1.getValueIndex();

} else {

countLoop = LageGroup - FageGroup;

start = FageGroup;

}

// ssn-16June

f\_getTotalInviteText();

textRepresentation();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<DefaultValueCode><![CDATA[combodefault()]]></DefaultValueCode>

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<Button><![CDATA[المملكة العربية السعودية]]></Button>

<Button><![CDATA[الرياض]]></Button>

<Button><![CDATA[مكة المكرمة]]></Button>

<Button><![CDATA[الشرقية]]></Button>

<Button><![CDATA[المدينة المنورة]]></Button>

<Button><![CDATA[الباحة]]></Button>

<Button><![CDATA[الجوف]]></Button>

<Button><![CDATA[الشمالية]]></Button>

<Button><![CDATA[القصيم]]></Button>

<Button><![CDATA[حايل]]></Button>

<Button><![CDATA[تبوك]]></Button>

<Button><![CDATA[عسير]]></Button>

<Button><![CDATA[جازان]]></Button>

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<Name><![CDATA[checkboxEqDis]]></Name>

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<X>3005</X><Y>676</Y>

<Label><X>0</X><Y>-10</Y></Label>

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<TextColor>-1</TextColor>

<Enabled>true</Enabled>

<ActionCode><![CDATA[if (self.isSelected()) {

editboxEqDis.setEnabled(true);

} else {

editboxEqDis.setEnabled(false);

for (int i = 0; i < c\_ScrPerEditBoxes.size(); i++) {

ShapeTextField c = c\_ScrPerEditBoxes.get(i);

if (c.isEnabled()) {

c.setText(c\_covRateDefault.get(i) \* 100.0);

}

}

f\_calcInvites();

}

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

<Font Name="Dialog" Size="18" Style="1"/>

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<LinkTo>false</LinkTo>

</ExtendedProperties>

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<Id>1753022986896</Id>

<Name><![CDATA[editboxEqDis]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>3080</X><Y>694</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D3D</DrawMode>

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<FillColor>-15853009</FillColor>

<TextColor>-1</TextColor>

<Enabled>false</Enabled>

<ActionCode><![CDATA[for (ShapeTextField c : c\_ScrPerEditBoxes) {

if (c.isEnabled()) {

c.setText(self.getDoubleValue(), true);

}

}

f\_getTotalInviteText();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<MinValue><![CDATA[0]]></MinValue>

<MaxValue><![CDATA[1]]></MaxValue>

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<Link>Survival1</Link>

</ExtendedProperties>

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<Id>1753022986898</Id>

<Name><![CDATA[editbox2]]></Name>

<ExcludeFromBuild>true</ExcludeFromBuild>

<X>3430</X><Y>695</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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<Link>v\_timeMaxAfter2023</Link>

</ExtendedProperties>

</Control>

<Text>

<Id>1753022986900</Id>

<Name><![CDATA[textinv2]]></Name>

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<X>3509</X><Y>1392</Y>

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<PublicFlag>true</PublicFlag>

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<Name><![CDATA[slider1]]></Name>

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<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<Name><![CDATA[text40]]></Name>

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<X>2595</X><Y>1515</Y>

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<ShowLabel>false</ShowLabel>

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<Rotation>0.0</Rotation>

<Color>-1</Color>

<Text><![CDATA[min]]></Text>

<TextCode><![CDATA[slider1.getMin() + " %"]]></TextCode>

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<Name>SansSerif</Name>

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<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<Rotation>0.0</Rotation>

<Color>-1</Color>

<Text><![CDATA[max]]></Text>

<Font>

<Name>SansSerif</Name>

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<Text>

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<Name><![CDATA[text42]]></Name>

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<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D</DrawMode>

<EmbeddedIcon>false</EmbeddedIcon>

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<Rotation>0.0</Rotation>

<Color>-1</Color>

<Text><![CDATA[value]]></Text>

<TextCode><![CDATA[slider1.getValue() + " %"]]></TextCode>

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<Name>SansSerif</Name>

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f\_calcScreenPer();]]></ActionCode>

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<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D</DrawMode>

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<Z>0</Z>

<Rotation>0.0</Rotation>

<Color>-1</Color>

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<TextCode><![CDATA[slider.getMin() + " %"]]></TextCode>

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<Name>SansSerif</Name>

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<Id>1753022986914</Id>

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<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<Rotation>0.0</Rotation>

<Color>-1</Color>

<Text><![CDATA[max]]></Text>

<Font>

<Name>SansSerif</Name>

<Size>10</Size>

<Style>0</Style>

</Font>

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<Text>

<Id>1753022986916</Id>

<Name><![CDATA[text45]]></Name>

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<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D</DrawMode>

<EmbeddedIcon>false</EmbeddedIcon>

<Z>0</Z>

<Rotation>0.0</Rotation>

<Color>-1</Color>

<Text><![CDATA[value]]></Text>

<TextCode><![CDATA[slider.getValue() + " %"]]></TextCode>

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<Name>SansSerif</Name>

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<Name><![CDATA[slider5]]></Name>

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<X>2775</X><Y>1485</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D3D</DrawMode>

<BasicProperties Width="125" Height="30">

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f\_calcScreenPer();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

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<Orientation>HORIZONTAL</Orientation>

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<LinkTo>false</LinkTo>

</ExtendedProperties>

</Control>

<Text>

<Id>1753022986920</Id>

<Name><![CDATA[text65]]></Name>

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<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D</DrawMode>

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<Rotation>0.0</Rotation>

<Color>-1</Color>

<Text><![CDATA[min]]></Text>

<TextCode><![CDATA[slider5.getMin() + " %"]]></TextCode>

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<Name>SansSerif</Name>

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<Name><![CDATA[text66]]></Name>

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<Label><X>0</X><Y>-10</Y></Label>

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<Name>SansSerif</Name>

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<Alignment>RIGHT</Alignment>

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<Text>

<Id>1753022986924</Id>

<Name><![CDATA[text67]]></Name>

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<X>2840</X><Y>1515</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

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<Rotation>0.0</Rotation>

<Color>-1</Color>

<Text><![CDATA[value]]></Text>

<TextCode><![CDATA[slider5.getValue() + " %"]]></TextCode>

<Font>

<Name>SansSerif</Name>

<Size>10</Size>

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</Font>

<Alignment>CENTER</Alignment>

</Text>

<Control Type="Slider">

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<Name><![CDATA[slider6]]></Name>

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<X>2775</X><Y>1565</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

<ShowLabel>false</ShowLabel>

<DrawMode>SHAPE\_DRAW\_2D3D</DrawMode>

<BasicProperties Width="125" Height="30">

<EmbeddedIcon>false</EmbeddedIcon>

<Enabled>true</Enabled>

<ActionCode><![CDATA[f\_ageSlider(3);

f\_calcScreenPer();]]></ActionCode>

</BasicProperties>

<ExtendedProperties>

<DefaultValueCode><![CDATA[0]]></DefaultValueCode>

<Orientation>HORIZONTAL</Orientation>

<Step><![CDATA[1]]></Step>

<LinkTo>false</LinkTo>

</ExtendedProperties>

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<Text>

<Id>1753022986928</Id>

<Name><![CDATA[text68]]></Name>

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<X>2780</X><Y>1595</Y>

<Label><X>0</X><Y>-10</Y></Label>

<PublicFlag>true</PublicFlag>

<PresentationFlag>true</PresentationFlag>

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<Color>-1</Color>

<Text><![CDATA[min]]></Text>

<TextCode><![CDATA[slider6.getMin() + " %"]]></TextCode>

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<Name>SansSerif</Name>

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<Text>

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setBaseStaffCount();

setBaseMachineCount();

runSimulation();

v\_isSimulationStarted=true;

v\_paramSetViewArea = homepage1;]]></OnClickCode>

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setBaseMachineCount();

f\_calcScreenPer();

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v\_isSimulationStarted=true;

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//root.modelInputs();

//root.getvaluesfromoriginalflow();]]></BeforeSimulationRunCode>

<AfterSimulationRunCode><![CDATA[//root.sc\_writeoutput();]]></AfterSimulationRunCode>

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<CustomGeneratorCode>new Random()</CustomGeneratorCode>

<BeforeEachExperimentRunCode><![CDATA[datasetCurrentObjective.reset();

datasetBestInfeasibleObjective.reset();

datasetBestFeasibleObjective.reset();

]]></BeforeEachExperimentRunCode>

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<PresentationFlag>true</PresentationFlag>

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for (Tuple row : rows) {

c\_mamograms.put(row.get(mamograms.rank),

row.get(mamograms.no\_of\_mamograms));

}]]></Body>

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<Body><![CDATA[ArrayList<Boolean> checkList = new ArrayList();

for (int reg = 0; reg < Region.size(); reg++) { //1

double noOfScreeningWeCanDo = c\_mamograms.get(reg) \* (2880/0.75);

double totalScreenings =0.0;

totalScreenings += age30 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(2)))

.firstResult(total\_population.population);

totalScreenings += age35 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(3)))

.firstResult(total\_population.population);

totalScreenings += age40 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(4)))

.firstResult(total\_population.population);

totalScreenings += age45 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(5)))

.firstResult(total\_population.population);

totalScreenings += age50 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(6)))

.firstResult(total\_population.population);

totalScreenings += age55 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(7)))

.firstResult(total\_population.population);

totalScreenings += age60 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(8)))

.firstResult(total\_population.population);

totalScreenings += age65 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(9)))

.firstResult(total\_population.population);

totalScreenings += age70 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(10)))

.firstResult(total\_population.population);

totalScreenings += age75 \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(11)))

.firstResult(total\_population.population);

if (totalScreenings < noOfScreeningWeCanDo){

checkList.add(true);

}else{

checkList.add(false);

}

}

for (Boolean value : checkList) {

if (!value) {

return 0.0; //false

}

}

return 1.0;//true ]]></Body>

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<Body><![CDATA[ArrayList<Boolean> checkList = new ArrayList();

for (int reg = 0; reg < Region.size(); reg++) { //1

double noOfScreeningWeCanDo = c\_mamograms.get(reg) \* (2880/0.75);

double totalScreenings =0.0;

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age30\_34 ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(2)))

.firstResult(total\_population.population);

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age35\_39 ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(3)))

.firstResult(total\_population.population);

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age40\_44 ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(4)))

.firstResult(total\_population.population);

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age45\_49 ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(5)))

.firstResult(total\_population.population);

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age50\_54 ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(6)))

.firstResult(total\_population.population);

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age55\_59 ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(7)))

.firstResult(total\_population.population);

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age60\_64 ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(8)))

.firstResult(total\_population.population);

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age65\_69 ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(9)))

.firstResult(total\_population.population);

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age70\_74 ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(10)))

.firstResult(total\_population.population);

totalScreenings += getCurrentParamValue( \_oqvar\_p\_age75\_ ) \* (int) selectFrom(total\_population)

.where(total\_population.region\_number.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(11)))

.firstResult(total\_population.population);

if (totalScreenings < noOfScreeningWeCanDo){

checkList.add(true);

}else{

checkList.add(false);

}

}

for (Boolean value : checkList) {

if (!value) {

return 0.0; //false

}

}

return 1.0;//true ]]></Body>

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s += "p\_age25\_29\t" + format( p\_age25\_29 ) + "\n";

s += "p\_age30\_34\t" + format( getBestParamValue( \_oqvar\_p\_age30\_34 ) ) + "\n";

s += "p\_age35\_39\t" + format( getBestParamValue( \_oqvar\_p\_age35\_39 ) ) + "\n";

s += "p\_age40\_44\t" + format( getBestParamValue( \_oqvar\_p\_age40\_44 ) ) + "\n";

s += "p\_age45\_49\t" + format( getBestParamValue( \_oqvar\_p\_age45\_49 ) ) + "\n";

s += "p\_age50\_54\t" + format( getBestParamValue( \_oqvar\_p\_age50\_54 ) ) + "\n";

s += "p\_age55\_59\t" + format( getBestParamValue( \_oqvar\_p\_age55\_59 ) ) + "\n";

s += "p\_age60\_64\t" + format( getBestParamValue( \_oqvar\_p\_age60\_64 ) ) + "\n";

s += "p\_age65\_69\t" + format( getBestParamValue( \_oqvar\_p\_age65\_69 ) ) + "\n";

s += "p\_age70\_74\t" + format( getBestParamValue( \_oqvar\_p\_age70\_74 ) ) + "\n";

s += "p\_age75\_\t" + format( getBestParamValue( \_oqvar\_p\_age75\_ ) ) + "\n";

s += "p\_TotalKSAMamo\t" + format( p\_TotalKSAMamo ) + "\n";

s += "initialPop\t" + String.valueOf( initialPop ) + "\n";

s += "agePercent\t" + String.valueOf( agePercent ) + "\n";

s += "mortality\_Rates\t" + String.valueOf( mortality\_Rates ) + "\n";

s += "Stage1Growth\t" + String.valueOf( Stage1Growth ) + "\n";

s += "Stage2Growth\t" + String.valueOf( Stage2Growth ) + "\n";

s += "Stage3Growth\t" + String.valueOf( Stage3Growth ) + "\n";

s += "Stage4Growth\t" + String.valueOf( Stage4Growth ) + "\n";

s += "S1Sus\t" + String.valueOf( S1Sus ) + "\n";

s += "S2Sus\t" + String.valueOf( S2Sus ) + "\n";

s += "S3Sus\t" + String.valueOf( S3Sus ) + "\n";

s += "S4Sus\t" + String.valueOf( S4Sus ) + "\n";

s += "s1\t" + String.valueOf( s1 ) + "\n";

s += "s2\t" + String.valueOf( s2 ) + "\n";

s += "s3\t" + String.valueOf( s3 ) + "\n";

s += "s4\t" + String.valueOf( s4 ) + "\n";

s += "\_Stage1Growth\t" + String.valueOf( \_Stage1Growth ) + "\n";

s += "\_Stage2Growth\t" + String.valueOf( \_Stage2Growth ) + "\n";

s += "\_Stage3Growth\t" + String.valueOf( \_Stage3Growth ) + "\n";

s += "\_Stage4Growth\t" + String.valueOf( \_Stage4Growth ) + "\n";

s += "\_S1Sus\t" + String.valueOf( \_S1Sus ) + "\n";

s += "\_S2Sus\t" + String.valueOf( \_S2Sus ) + "\n";

s += "\_S3Sus\t" + String.valueOf( \_S3Sus ) + "\n";

s += "\_S4Sus\t" + String.valueOf( \_S4Sus ) + "\n";

s += "p\_covRateArr\t" + String.valueOf( p\_covRateArr ) + "\n";

s += "p\_ExpName\t" + String.valueOf( p\_ExpName ) + "\n";

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datasetBestFeasibleObjective.update();

}

if (!isCurrentSolutionFeasible()) {

bestInfeasibleObjective = max( bestInfeasibleObjective, getCurrentObjectiveValue() );

}

if (bestInfeasibleObjective != Double.NEGATIVE\_INFINITY) {

datasetBestInfeasibleObjective.update();

}

]]></AfterIterationCode>

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</OptimizationExperiment>

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for (Tuple row : rows) {

c\_mamograms.put(row.get(mamograms.rank),

row.get(mamograms.no\_of\_mamograms));

}]]></Body>

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<Body><![CDATA[ArrayList<Boolean> checkList = new ArrayList();

for (int reg = 0; reg < Region.size(); reg++) { //1

double noOfScreeningWeCanDo = c\_mamograms.get(reg) \* (2880/0.75);

double totalScreenings =0.0;

totalScreenings += age30 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(2)))

.firstResult(total\_population.population);

totalScreenings += age35 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(3)))

.firstResult(total\_population.population);

totalScreenings += age40 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(4)))

.firstResult(total\_population.population);

totalScreenings += age45 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(5)))

.firstResult(total\_population.population);

totalScreenings += age50 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(6)))

.firstResult(total\_population.population);

totalScreenings += age55 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(7)))

.firstResult(total\_population.population);

totalScreenings += age60 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(8)))

.firstResult(total\_population.population);

totalScreenings += age65 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(9)))

.firstResult(total\_population.population);

totalScreenings += age70 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(10)))

.firstResult(total\_population.population);

totalScreenings += age75 \* (int) selectFrom(total\_population)

.where(total\_population.region.eq(reg))

.where(total\_population.age\_group.eq(AgeGroup.getIndexName(11)))

.firstResult(total\_population.population);

if (totalScreenings < noOfScreeningWeCanDo){

checkList.add(true);

}else{

checkList.add(false);

}

}

for (Boolean value : checkList) {

if (!value) {

return 0; //false

}

}

return 1;//true ]]></Body>

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<Type>FIXED</Type>

</Parameter>

<Parameter>

<Id>1753026107726</Id>

<Type>FIXED</Type>

</Parameter>

<Parameter>

<Id>1753026107733</Id>

<Type>FIXED</Type>

</Parameter>

<Parameter>

<Id>1753026215239</Id>

<Type>FIXED</Type>

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<Id>1753026215250</Id>

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<Id>1753771808241</Id>

<Type>FIXED</Type>

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<ObjectiveFunctionCode><![CDATA[0]]></ObjectiveFunctionCode>

<Objective>MINIMIZE</Objective>

<OptimizationEngine>NATIVE</OptimizationEngine>

<AllowParallelEvaluations>true</AllowParallelEvaluations>

<ReplicationsProperties>

<UseReplication>false</UseReplication>

<FixedReplicationsNumber>true</FixedReplicationsNumber>

<ReplicationPerIteration>10</ReplicationPerIteration>

<MinimumReplication>2</MinimumReplication>

<MaximumReplication>10</MaximumReplication>

<ConfidenceLevel>LEVEL\_80</ConfidenceLevel>

<ErrorPercent>0.5</ErrorPercent>

</ReplicationsProperties>

<PresentationProperties>

<EnableZoomAndPanning>true</EnableZoomAndPanning>

<Title><![CDATA[BC Model v15\_BO\_Opt\_v1 : Optimization]]></Title>

<EnableDeveloperPanel>true</EnableDeveloperPanel>

<ShowDeveloperPanelOnStart>false</ShowDeveloperPanelOnStart>

</PresentationProperties>

<ModelTimeProperties>

<StopOption><![CDATA[Stop at specified date]]></StopOption>

<InitialDate><![CDATA[1735689600000]]></InitialDate>

<InitialTime><![CDATA[0.0]]></InitialTime>

<FinalDate><![CDATA[1935360000000]]></FinalDate>

<FinalTime><![CDATA[6.331506849315068]]></FinalTime>

<StopAfterIterationCount>true</StopAfterIterationCount>

<IterationCount>500</IterationCount>

<AutomaticStop>false</AutomaticStop>

</ModelTimeProperties>

</OptimizationExperiment>

<!-- ========= Reinforcemenet Learning Experiment ======== -->

<ReinforcementLearningExperiment ActiveObjectClassId="1714648423557">

<Id>1753685439380</Id>

<Name><![CDATA[RLExperiment]]></Name>

<MaximumMemory>512</MaximumMemory>

<RandomNumberGenerationType>fixedSeed</RandomNumberGenerationType>

<CustomGeneratorCode>new Random()</CustomGeneratorCode>

<SeedValue>1</SeedValue>

<ModelTimeProperties>

<StopOption><![CDATA[Stop at specified time]]></StopOption>

<InitialDate><![CDATA[1735689600000]]></InitialDate>

<InitialTime><![CDATA[0.0]]></InitialTime>

<FinalDate><![CDATA[1956441600000]]></FinalDate>

<FinalTime><![CDATA[7.0]]></FinalTime>

</ModelTimeProperties>

<ObservationField>

<Name><![CDATA[o\_LifeExpectancy]]></Name>

<Type><![CDATA[double]]></Type>

</ObservationField>

<ObservationCode><![CDATA[o\_LifeExpectancy = root.o\_LifeExpectancy;]]></ObservationCode>

<StopCondition><![CDATA[root.time() > 7]]></StopCondition>

<ConfigurationField>

<Name><![CDATA[p\_age20\_24]]></Name>

<Type><![CDATA[double]]></Type>

</ConfigurationField>

<ConfigurationField>

<Name><![CDATA[p\_age25\_29]]></Name>

<Type><![CDATA[double]]></Type>

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</ConfigurationField>

<ConfigurationField>

<Name><![CDATA[p\_age65\_69]]></Name>

<Type><![CDATA[double]]></Type>

</ConfigurationField>

<ConfigurationField>

<Name><![CDATA[p\_age70\_74]]></Name>

<Type><![CDATA[double]]></Type>

</ConfigurationField>

<ConfigurationField>

<Name><![CDATA[p\_age75\_]]></Name>

<Type><![CDATA[double]]></Type>

</ConfigurationField>

<ConfigurationCode><![CDATA[root.p\_age20\_24 = p\_age20\_24;

root.p\_age25\_29 = p\_age25\_29;

root.p\_age30\_34 = p\_age30\_34;

root.p\_age35\_39 = p\_age35\_39;

root.p\_age40\_44 = p\_age40\_44;

root.p\_age45\_49 = p\_age45\_49;

root.p\_age50\_54 = p\_age50\_54;

root.p\_age55\_59 = p\_age55\_59;

root.p\_age60\_64 = p\_age60\_64;

root.p\_age65\_69 = p\_age65\_69;

root.p\_age70\_74 = p\_age70\_74;

root.p\_age75\_ = p\_age75\_;]]></ConfigurationCode>

</ReinforcementLearningExperiment>

<!-- ========= Custom Experiment ======== -->

<CustomExperiment>

<Id>1753701497897</Id>

<Name><![CDATA[CustomExperimentOPTQUEST]]></Name>

<MaximumMemory>16384</MaximumMemory>

<CommandLineArguments><![CDATA[]]></CommandLineArguments>

<VmArgs><![CDATA[]]></VmArgs>

<Import><![CDATA[import com.opttek.optquest.\*;]]></Import>

<Code><![CDATA[try {

// Create Engine, initialize random number generator:

Engine engine = createEngine();

// Set stop time:

//engine.setStartDate( sStartDate );

engine.setTimeUnit( YEAR );

engine.setStopTime(6.5);

engine.setStartDate( toDate( 2025, JANUARY, 1, 0, 0, 0 ) );

// Set stop time:

engine.setStopDate( toDate( 2031, MAY, 1, 0, 0, 0 ) );

// Set optimization variables

Main dummyMain = new Main(engine, null, null);

dummyMain.setParametersToDefaultValues();

int iteration\_num = 1;

int nOfDecisionVars = 12/\*dummyMain.getNumParamsToOptimize()\*/;

COptQuestDiscreteVariable[] decVars = new COptQuestDiscreteVariable[nOfDecisionVars];

for ( int i = 0; i < nOfDecisionVars; i++ ) {

final COptQuestDiscreteVariable dv = new COptQuestDiscreteVariable();

dv.SetLowerBound(0.0);

dv.SetUpperBound(0.5);

dv.SetStepSize(0.01);

decVars[i] = dv;

}

// Create objective

final COptQuestObjective obj = new COptQuestUserControlledObjective();

obj.SetMaximize();

// Create optimization engine

final COptQuestOptimization opt = ExperimentOptimization.createOptimization(

engine, new OptimizationCallback() {

int iteration\_num = 0;

@Override

public void evaluate(COptQuestOptimization optimization,

COptQuestSolution solution, Engine engine)

{

// Create new root object:

Main root = new Main(engine, null, null);

// Setup parameters of root object here

root.setParametersToDefaultValues();

root.isOptimization = true;

root.p\_ExpName = "optquest";

root.p\_covRateArr = new double[nOfDecisionVars];

for ( int i = 0; i < nOfDecisionVars; i++ ){

root.p\_covRateArr[i] = (double)solution.GetVariableValue(decVars[i]);

//traceln("root.paramToOpt["+i+"]= " + root.p\_covRateArr[i]);

}

double constraintValue = root.f\_requirement("optquest");

//start the sim

traceln("Start Iteration\_num : "+ iteration\_num);

// Prepare Engine for simulation:

engine.start(root);

// Start simulation in fast mode:

engine.runFast();

//constraints

//solution.se (myConstraint, root.f\_requirement());

// Process results of simulation here

solution.SetObjectiveValue(obj, root.o\_LifeExpectancy );

// Destroy the model:

engine.stop();

iteration\_num += 1;

traceln("End Iteration\_num: " + iteration\_num);

}

});

// Setup optimization engine

for ( int i = 0; i < nOfDecisionVars; i++ ){

opt.AddVariable( decVars[i]); }

opt.AddObjective(obj);

// Set the number of iterations to run

opt.SetMaximumIterations(1);

// Add suggested solution (initial solution)

traceln("solution: "+opt.CreateSolution());

COptQuestSolution suggestedSolution = opt.CreateSolution();

for ( int i = 0; i < nOfDecisionVars; i++ ){

suggestedSolution.SetVariableValue( decVars[i], 2 ); }

opt.AddSuggestedSolution(suggestedSolution);

// Perform optimization

opt.Optimize();

// Output results

COptQuestSolution bestSolution = opt.GetBestSolution();

double[] bestDecValues = new double[nOfDecisionVars];

for ( int i = 0; i < nOfDecisionVars; i++ ){

bestDecValues[i] = bestSolution.GetVariableValue( decVars[i] );}

traceln("Best objective: " + format(bestSolution.GetObjectiveValue(obj)));

traceln("Best values: " + Arrays.toString( bestDecValues ));

} catch (COptQuestException e) {

traceln(e.Description());

} ]]></Code>

</CustomExperiment>

<!-- ========= Custom Experiment ======== -->

<CustomExperiment>

<Id>1753770072098</Id>

<Name><![CDATA[CustomExperimentGeneric]]></Name>

<MaximumMemory>16384</MaximumMemory>

<CommandLineArguments><![CDATA[]]></CommandLineArguments>

<VmArgs><![CDATA[]]></VmArgs>

<Import><![CDATA[import org.uma.jmetal.solution.compositesolution.CompositeSolution;

import org.uma.jmetal.util.ConstraintHandling;

import org.uma.jmetal.algorithm.Algorithm;]]></Import>

<Code><![CDATA[try {

// Create optimization with Main agent as generic parameter

GeneticOptimization<Main> optimization = new GeneticOptimization<>(Main.class) {

// Creates engine to perform simulation run

@Override

public Engine prepareEngine() {

Engine engine = createEngine();

// Setup random generator

engine.getDefaultRandomGenerator().setSeed(1);

engine.setTimeUnit(YEAR);

engine.setStopTime(6.5);

return engine;

}

@Override

public void prepareRoot(Main root, CompositeSolution cs) {

// Set parameters to default values

root.setParametersToDefaultValues();

root.isOptimization = true;

root.p\_ExpName = "generic";

// Set decision variables from CompositeSolution, scaling integers to doubles

//root.p\_age20\_24 = ((int) GeneticOptimization.getVariable(cs, "p\_age20\_24")) \* 0.01;

//root.p\_age25\_29 = ((int) GeneticOptimization.getVariable(cs, "p\_age25\_29")) \* 0.01;

root.p\_age30\_34 = ((int) GeneticOptimization.getVariable(cs, "p\_age30\_34")) \* 0.01;

root.p\_age35\_39 = ((int) GeneticOptimization.getVariable(cs, "p\_age35\_39")) \* 0.01;

root.p\_age40\_44 = ((int) GeneticOptimization.getVariable(cs, "p\_age40\_44")) \* 0.01;

root.p\_age45\_49 = ((int) GeneticOptimization.getVariable(cs, "p\_age45\_49")) \* 0.01;

root.p\_age50\_54 = ((int) GeneticOptimization.getVariable(cs, "p\_age50\_54")) \* 0.01;

root.p\_age55\_59 = ((int) GeneticOptimization.getVariable(cs, "p\_age55\_59")) \* 0.01;

root.p\_age60\_64 = ((int) GeneticOptimization.getVariable(cs, "p\_age60\_64")) \* 0.01;

root.p\_age65\_69 = ((int) GeneticOptimization.getVariable(cs, "p\_age65\_69")) \* 0.01;

root.p\_age70\_74 = ((int) GeneticOptimization.getVariable(cs, "p\_age70\_74")) \* 0.01;

root.p\_age75\_ = ((int) GeneticOptimization.getVariable(cs, "p\_age75\_")) \* 0.01;

}

// Variable to monitor optimization status

private double bestObjective = Double.NaN;

// Trace each iteration

@Override

public void afterIterationCallback(Main root, CompositeSolution cs) {

int currentIteration = GeneticOptimization.getIteration(cs);

double currentObjective = cs.objectives()[0];

double constraintValue = root.f\_requirement("generic");

if (Double.isNaN(bestObjective) || currentObjective > bestObjective) {

// Update best objective (maximizing)

bestObjective = currentObjective;

}

traceln(String.format(" %3d : [ %.2f, %.2f, %.2f, %.2f, %.2f, %.2f, %.2f, %.2f, %.2f, %.2f] : %8.2f : %8.2f -- %8.2f", currentIteration,

root.p\_age30\_34, root.p\_age35\_39,

root.p\_age40\_44, root.p\_age45\_49, root.p\_age50\_54, root.p\_age55\_59,

root.p\_age60\_64, root.p\_age65\_69, root.p\_age70\_74, root.p\_age75\_,

constraintValue,currentObjective, bestObjective));

}//%.2f, %.2f,root.p\_age20\_24, root.p\_age25\_29,

};

// Add decision variables as integers (0 to 50 maps to 0.0 to 0.5 with 0.01 steps)

//optimization.addIntegerVariable("p\_age20\_24", 0, 50);

//optimization.addIntegerVariable("p\_age25\_29", 0, 50);

optimization.addIntegerVariable("p\_age30\_34", 0, 50);

optimization.addIntegerVariable("p\_age35\_39", 0, 50);

optimization.addIntegerVariable("p\_age40\_44", 0, 50);

optimization.addIntegerVariable("p\_age45\_49", 0, 50);

optimization.addIntegerVariable("p\_age50\_54", 0, 50);

optimization.addIntegerVariable("p\_age55\_59", 0, 50);

optimization.addIntegerVariable("p\_age60\_64", 0, 50);

optimization.addIntegerVariable("p\_age65\_69", 0, 50);

optimization.addIntegerVariable("p\_age70\_74", 0, 50);

optimization.addIntegerVariable("p\_age75\_", 0, 50);

// Enable parallel evaluation

optimization.enableParallelMode();

// Add constraints (uncomment and modify as needed)

/\*optimization.addConstraint(root -> {

double val = root.f\_requirement();

System.out.println("Pre-simulation f\_requirement: " + val);

return val - 1.0;

});\*/

optimization.addConstraint(root -> (double)root.f\_requirement("generic") - 1.0);

// Set objective (maximizing life expectancy)

optimization.setObjectiveEvaluator(root -> root.o\_LifeExpectancy);

// Set initial solution (equivalent to suggested solution in OptQuest)

//int[] initialValues = {20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20}; // Maps to 0.2 (0.2 ÷ 0.01 = 20)

//optimization.setInitialSolution(initialValues);

traceln(" Iter : [30\_34, 35\_39, 40\_44, 45\_49,"+

" 50\_54, 55\_59, 60\_64, 65\_69, 70\_74, 75\_] : Objective -- Best obj.");

traceln("-------------------------------------------");

// Perform optimization (using 1 iteration as in original)

optimization.run(4);

// Output results

CompositeSolution bestSolution = optimization.getResult();

if (bestSolution != null) {

//double p\_age20\_24 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age20\_24")) \* 0.01;

//double p\_age25\_29 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age25\_29")) \* 0.01;

double p\_age30\_34 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age30\_34")) \* 0.01;

double p\_age35\_39 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age35\_39")) \* 0.01;

double p\_age40\_44 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age40\_44")) \* 0.01;

double p\_age45\_49 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age45\_49")) \* 0.01;

double p\_age50\_54 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age50\_54")) \* 0.01;

double p\_age55\_59 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age55\_59")) \* 0.01;

double p\_age60\_64 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age60\_64")) \* 0.01;

double p\_age65\_69 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age65\_69")) \* 0.01;

double p\_age70\_74 = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age70\_74")) \* 0.01;

double p\_age75\_ = ((int) GeneticOptimization.getVariable(bestSolution, "p\_age75\_")) \* 0.01;

// Re-run simulation to evaluate f\_requirement() for the best solution

Engine engine = optimization.prepareEngine();

Main root = new Main(engine, null, null);

root.setParametersToDefaultValues();

root.isOptimization = true;

root.p\_ExpName = "generic";

//root.p\_age20\_24 = p\_age20\_24;

//root.p\_age25\_29 = p\_age25\_29;

root.p\_age30\_34 = p\_age30\_34;

root.p\_age35\_39 = p\_age35\_39;

root.p\_age40\_44 = p\_age40\_44;

root.p\_age45\_49 = p\_age45\_49;

root.p\_age50\_54 = p\_age50\_54;

root.p\_age55\_59 = p\_age55\_59;

root.p\_age60\_64 = p\_age60\_64;

root.p\_age65\_69 = p\_age65\_69;

root.p\_age70\_74 = p\_age70\_74;

root.p\_age75\_ = p\_age75\_;

engine.start(root);

engine.runFast();

double constraintValue = (double)root.f\_requirement("generic");

engine.stop();

traceln("-------------------------------------------");

traceln("Best objective: " + format(bestSolution.objectives()[0]));

traceln(" is feasible: " + ConstraintHandling.isFeasible(bestSolution));

traceln(" constraint value: " + format(constraintValue));

traceln(String.format("Best coverage rates: [ %.2f, %.2f, %.2f, %.2f, %.2f, %.2f, %.2f, %.2f, %.2f, %.2f]",

p\_age30\_34, p\_age35\_39, p\_age40\_44, p\_age45\_49,

p\_age50\_54, p\_age55\_59, p\_age60\_64, p\_age65\_69, p\_age70\_74, p\_age75\_));

}//%.2f, %.2f, p\_age20\_24, p\_age25\_29,

} catch (Exception e) {

traceln("Error: " + e.getMessage());

}]]></Code>

</CustomExperiment>

</Experiments>

<JavaClasses>

<!-- ========= Java Class ======== -->

<JavaClass>

<Id>1753769863029</Id>

<Name><![CDATA[GeneticOptimization]]></Name>

<Text><![CDATA[import org.uma.jmetal.algorithm.Algorithm;

import org.uma.jmetal.algorithm.multiobjective.nsgaii.NSGAII;

import org.uma.jmetal.operator.crossover.CrossoverOperator;

import org.uma.jmetal.operator.crossover.impl.\*;

import org.uma.jmetal.operator.mutation.MutationOperator;

import org.uma.jmetal.operator.mutation.impl.\*;

import org.uma.jmetal.operator.selection.impl.BinaryTournamentSelection;

import org.uma.jmetal.problem.Problem;

import org.uma.jmetal.solution.Solution;

import org.uma.jmetal.solution.binarysolution.BinarySolution;

import org.uma.jmetal.solution.binarysolution.impl.DefaultBinarySolution;

import org.uma.jmetal.solution.compositesolution.CompositeSolution;

import org.uma.jmetal.solution.doublesolution.DoubleSolution;

import org.uma.jmetal.solution.doublesolution.impl.DefaultDoubleSolution;

import org.uma.jmetal.solution.integersolution.IntegerSolution;

import org.uma.jmetal.solution.integersolution.impl.DefaultIntegerSolution;

import org.uma.jmetal.util.ConstraintHandling;

import org.uma.jmetal.util.binarySet.BinarySet;

import org.uma.jmetal.util.bounds.Bounds;

import org.uma.jmetal.util.comparator.DominanceComparator;

import org.uma.jmetal.util.comparator.RankingAndCrowdingDistanceComparator;

import org.uma.jmetal.util.evaluator.impl.SequentialSolutionListEvaluator;

import org.uma.jmetal.util.pseudorandom.JMetalRandom;

import org.uma.jmetal.util.evaluator.SolutionListEvaluator;

import java.util.function.Function;

import java.util.concurrent.Callable;

import java.util.concurrent.ExecutorService;

import java.util.concurrent.Executors;

import java.util.concurrent.Future;

import java.util.concurrent.atomic.AtomicInteger;

/\*\* The genetic optimization is based on JMetal (an open source metaheuristic optimization framework)

\* You may visit https://jmetal.readthedocs.io/ for detailed documentation

\* or https://javadoc.io/doc/org.uma.jmetal/jmetal-core/latest/index.html - for JavaDoc

\*/

public class GeneticOptimization<R extends Agent> implements Problem<CompositeSolution> {

final static String VARIABLES\_ORDER\_ATTRIBUTE = "Variables";

final static String ITERATION\_ATTRIBUTE = "Iteration";

// Integer decision variables

private List<Bounds<Integer>> intBounds = new ArrayList<>();

private LinkedList<String> intVariables = new LinkedList<>();

// Double decision variables

private List<Bounds<Double>> doubleBounds = new ArrayList<>();

private LinkedList<String> doubleVariables = new LinkedList<>();

// Bolean decision variables

private LinkedList<String> booleanVariables = new LinkedList<>();

private Function<R, Double> objectiveEvaluator;

// Engine instance used for serial optimization and to crate dummy

// root for validation of decision variables

private Engine serialEngine;

// An instance of root Agent's class

private Class<R> rootClass;

private boolean parallelMode = false;

private AtomicInteger iterationCounter = new AtomicInteger(0);

// Algorithm

private Algorithm<List<CompositeSolution>> algorithm;

public GeneticOptimization(Class<R> rootClass) {

this.rootClass = rootClass;

}

public void enableParallelMode() {

if (algorithm != null) {

throw new RuntimeException("Parallel mode may be enabled only before optimization has been started");

}

this.parallelMode = true;

}

@Override

public CompositeSolution createSolution() {

IntegerSolution integerSolution = new DefaultIntegerSolution(getNumberOfObjectives(), getNumberOfConstraints(), intBounds);

integerSolution.attributes().put(VARIABLES\_ORDER\_ATTRIBUTE, intVariables);

DoubleSolution doubleSolution = new DefaultDoubleSolution(getNumberOfObjectives(), getNumberOfConstraints(), doubleBounds);

doubleSolution.attributes().put(VARIABLES\_ORDER\_ATTRIBUTE, doubleVariables);

DefaultBinarySolution binarySolution = new DefaultBinarySolution(Arrays.asList(booleanVariables.size()), getNumberOfObjectives(), getNumberOfConstraints());

binarySolution.attributes().put(VARIABLES\_ORDER\_ATTRIBUTE, booleanVariables);

return new CompositeSolution(Arrays.asList(integerSolution, doubleSolution));

}

public void addIntegerVariable(String name, int lowerBound, int upperBound) {

ensureRootHasParameter(name);

if (intVariables.contains(name)) {

throw new RuntimeException(String.format("The variable '%s' was already part of optimization", name));

}

intVariables.add(name);

intBounds.add(Bounds.create(lowerBound, upperBound));

}

public void addDoubleVariable(String name, double lowerBound, double upperBound) {

ensureRootHasParameter(name);

if (doubleVariables.contains(name)) {

throw new RuntimeException(String.format("The variable '%s' was already part of optimization", name));

}

doubleVariables.add(name);

doubleBounds.add(Bounds.create(lowerBound, upperBound));

}

public void addBooleanVariable(String name) {

ensureRootHasParameter(name);

if (booleanVariables.contains(name)) {

throw new RuntimeException(String.format("The variable '%s' was already part of optimization", name));

}

booleanVariables.add(name);

}

public void addConstraint(Function<R, Number> constraint) {

//constraint is feasible if it is non-negative

constraints.add(constraint);

}

public void addRequirement(Function<R, Number> requirement) {

//requirement is feasible if it is non-negative

requirements.add(requirement);

}

private R dummyRootForValidation;

private void ensureRootHasParameter(String name) {

if (dummyRootForValidation == null) {

if (serialEngine == null) {

serialEngine = prepareEngine();

}

dummyRootForValidation = createRoot(serialEngine, rootClass);

}

boolean noSuchParameter = Arrays.stream(dummyRootForValidation.getParameterNames())

.filter(s -> s.equals(name))

.findAny()

.isEmpty();

if (noSuchParameter) {

throw new RuntimeException(String.format(

"The root agent has no parameter with such name '%s'. Please verify parameter name.", name) );

}

}

@Override

public CompositeSolution evaluate(CompositeSolution cs) {

Engine engine;

if (parallelMode) {

engine = prepareEngine();

} else {

if (serialEngine == null) {

serialEngine = prepareEngine();

}

engine = serialEngine;

}

R root = createRoot(engine, rootClass);

root.setParametersToDefaultValues();

setupVariables(root, cs);

cs.attributes().put(ITERATION\_ATTRIBUTE, -1);

prepareRoot(root, cs);

if (!processConstraints(root, cs)) {

cs.objectives()[0] = infinity;

return cs;

}

cs.attributes().put(ITERATION\_ATTRIBUTE, iterationCounter.incrementAndGet());

engine.start(root);

engine.runFast();

double objective = objectiveEvaluator.apply(root);

cs.objectives()[0] = objective;

afterIterationCallback(root, cs);

processRequirements(root, cs);

// Destroy the model

engine.stop();

return cs;

}

public void prepareRoot(R root, CompositeSolution cs) {

// The method is optional and should be overriden by user

}

private R createRoot(Engine engine, Class<R> clazz) {

try {

return clazz.getDeclaredConstructor(Engine.class, Agent.class, AgentList.class).newInstance(engine, null, null);

} catch (Exception e) {

e.printStackTrace();

return null;

}

}

public Engine prepareEngine() {

throw new RuntimeException("Method prepareEngine() should be overriden");

}

private List<Function<R, Number>> constraints = new ArrayList<>();

private boolean processConstraints(R root, CompositeSolution cs) {

int i = 0;

for (Function<R, Number> f : constraints) {

cs.constraints()[i++] = f.apply(root).doubleValue();

}

return ConstraintHandling.isFeasible(cs);

}

private List<Function<R, Number>> requirements = new ArrayList<>();

private void processRequirements(R root, CompositeSolution cs) {

int i = constraints.size();

for (Function<R, Number> f : requirements) {

cs.constraints()[i++] = f.apply(root).doubleValue();

}

}

public void afterIterationCallback(R root, CompositeSolution cs) {

// The method is optional and should be overriden by user

}

private void setupVariables(R root, CompositeSolution cs) {

for (Solution<?> s: cs.variables()) {

LinkedList<String> params = (LinkedList<String>) s.attributes().get(VARIABLES\_ORDER\_ATTRIBUTE);

for (int i = 0; i < params.size(); i++) {

String paramName = params.get(i);

Object paramValue;

if (s instanceof BinarySolution) {

BinarySet bs = (BinarySet) s.variables().get(0);

paramValue = bs.get(i);

} else {

paramValue = s.variables().get(i);

}

root.setParameter(paramName, paramValue, false);

}

}

}

public void setObjectiveEvaluator(Function<R, Double> objectiveEvaluator) {

this.objectiveEvaluator = objectiveEvaluator;

}

public static Object getVariable(CompositeSolution cs, String varName) {

for (Solution s: cs.variables()) {

LinkedList<String> variables = (LinkedList<String>) (s.attributes().get(VARIABLES\_ORDER\_ATTRIBUTE));

int index = variables.indexOf(varName);

if (index != -1) {

if (s instanceof BinarySolution) {

BinarySet bs = (BinarySet) s.variables().get(0);

return bs.get(index);

} else {

return s.variables().get(index);

}

}

}

throw new RuntimeException(String.format(

"Variable with name '%s' is not a part of optimization. Ensure such variable was added via addVariable API"

, varName) );

}

public static int getIteration(CompositeSolution cs) {

return (int) cs.attributes().get(ITERATION\_ATTRIBUTE);

}

private CompositeCrossover prepareCrossover() {

CrossoverOperator<IntegerSolution> intCrossover = new IntegerSBXCrossover(1.0, 20.0);

CrossoverOperator<DoubleSolution> doubleCrossover = new SBXCrossover(1.0, 20.0);

CrossoverOperator<BinarySolution> booleanCrossover = new HUXCrossover(1.0);

CompositeCrossover crossover = new CompositeCrossover(

Arrays.asList(

intCrossover,

doubleCrossover,

booleanCrossover)

);

return crossover;

}

private CompositeMutation prepareMutator() {

int nDiscr = intVariables.isEmpty() ? 1 : intVariables.size();

MutationOperator<IntegerSolution> intMutator = new IntegerPolynomialMutation(1.0 / nDiscr, 20.0);

int nCont = doubleVariables.isEmpty() ? 1 : doubleVariables.size();

MutationOperator<DoubleSolution> doubleMutator = new PolynomialMutation(1.0 / nCont, 20.0);

int nBool = booleanVariables.isEmpty() ? 1 : booleanVariables.size();

MutationOperator<BinarySolution> booleanMutator = new BitFlipMutation(1.0 / nBool);

CompositeMutation mutator = new CompositeMutation(Arrays.asList(intMutator, doubleMutator, booleanMutator));

return mutator;

}

private Algorithm<List<CompositeSolution>> createAlgorithm(int numberOfEvaluations) {

if (numberOfEvaluations < 2) {

throw new RuntimeException("");

}

BinaryTournamentSelection<CompositeSolution> selectionOperator =

new BinaryTournamentSelection<>(new RankingAndCrowdingDistanceComparator<CompositeSolution>());

DominanceComparator<CompositeSolution> dominanceComparator = new DominanceComparator<>();

int populationSize = Math.min(10, numberOfEvaluations);

final int matingPoolSize = populationSize;

final int offspringPopulationSize = populationSize;

CrossoverOperator<CompositeSolution> crossover = prepareCrossover();

MutationOperator<CompositeSolution> mutator = prepareMutator();

SolutionListEvaluator evaluator = parallelMode ? new ParallelModelEvaluator() :

new SequentialSolutionListEvaluator();

Algorithm<List<CompositeSolution>> algorithm = new NSGAII<CompositeSolution>(this,

numberOfEvaluations, populationSize, matingPoolSize, offspringPopulationSize,

crossover, mutator, selectionOperator, dominanceComparator, evaluator) {

public void run() {

super.run();

evaluator.shutdown();

}

public boolean isStoppingConditionReached() {

return numberOfEvaluations <= iterationCounter.get();

}

};

return algorithm;

}

public void run(int numberOfEvaluations) {

// If optimization reproducability is needed, JMetal seed should be configured. For example:

JMetalRandom.getInstance().setSeed(-6628324415405697051L /\* Any big number \*/);

if (getNumberOfVariables() == 0) {

throw new RuntimeException("No decision variables were added. Use add...Variable() methods to configure set of decision variables");

}

if (objectiveEvaluator == null) {

throw new RuntimeException("No objective evaluator was added. Use setObjectiveEvaluator() methods to specify objective function evaluation code");

}

algorithm = createAlgorithm(numberOfEvaluations);

algorithm.run();

}

public CompositeSolution getResult() {

if (algorithm == null

|| algorithm.getResult() == null

|| algorithm.getResult().isEmpty() ) {

return null;

}

return algorithm.getResult().get(0);

}

@Override

public int getNumberOfObjectives() {

return 1;

}

@Override

public int getNumberOfVariables() {

return intVariables.size() + doubleVariables.size() + booleanVariables.size();

}

@Override

public int getNumberOfConstraints() {

return constraints.size() + requirements.size();

}

@Override

public String getName() {

return "Genetic optimization";

}

private static class ParallelModelEvaluator implements SolutionListEvaluator<CompositeSolution> {

private ExecutorService pool = Executors.newFixedThreadPool(Runtime.getRuntime().availableProcessors());

private Collection<Callable<CompositeSolution>> tasks = new ArrayList<>();

@Override

public List<CompositeSolution> evaluate(List<CompositeSolution> solutionList,

Problem<CompositeSolution> problem) {

tasks.clear();

for (CompositeSolution s: solutionList) {

tasks.add(() -> problem.evaluate(s));

}

try {

// Invoke simulations

List<Future<CompositeSolution>> results = pool.invokeAll(tasks);

// Wait till all tasks completed

} catch (Exception e) {

e.printStackTrace();

}

return solutionList;

}

@Override

public void shutdown() {

pool.shutdown();

}

}

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