**Pseudo Code for Tax System**

breed [PIAPI ] #Personal income tax for category A people working with private industry

breed [PIAV ] # Personal income tax for category A people who are veterans

breed [PIASE ] # Personal income tax for category A people who are self employed

breed [ PIBPI]# Personal income tax for category B people working with private industry

breed [PIBV] # Personal income tax for category B people who are veterans

breed [ PIBSE] # Personal income tax for category A people who are self employed

breed [PICPI ] # Personal income tax for category C people working with private industry

breed [PICV ] # Personal income tax for category C people who are veterans

breed [PICSE ] # Personal income tax for category C people who are self employed

breed [ BTAHC] #BUSINESS TAX FOR HEALTH CARE BUSINESS WHICH PAYS UPTO 250000 OR LESS

breed [BTAS ] # BUSINESS TAX FOR SERVICE PROVIDERS WHICH PAYS UPTO 250000 OR LESS

breed [BTAHI ] #BUSINESS TAX FOR HEAVY INDUSTRIES WHICH PAYS UPTO 250000 OR LESS

breed [ BTBHC] #BUSINESS TAX FOR HEALTH CARE BUSINESS WHICH PAYS 3% BEYOND

breed [ BTBS] # BUSINESS TAX FOR SERVICE PROVIDERS WHICH PAYS 3% BEYOND

breed [ BTBHI] #BUSINESS TAX FOR HEAVY INDUSTRIES WHICH PAYS 3% BEYOND

breed [SST ] # SALES SERVICE TAX

breed [ SET] #SALES EXCISE TAX

breed [ STX] # SALES TRANSACTION TAX

breed [PM ] #PROPERTY MOVABLE PROPERTY TAX

breed [ PIM] #PERSONAL IMMOVABLE PROPERTY TAX

breed [PINTL ] # INTELLECTUAL PROPERTY AND SHARE CERTIFICATE TAX

BREED [ET] # ENTERTAINMENT TAX

Following are the population of entities who pay taxes. Only first one is given as example.

breed [P-PIAPI ] #Population of Personal income tax for category A people working with private industry

breed [P-PIAV ]

breed [P-PIASE ]

breed [ P-PIBPI]

breed [P-PIBV]

breed [ P-PIBSE]

breed [P-PICPI ]

breed [P-PICV ]

breed [P-PICSE ]

breed [ P-BTAHC]

breed [P-BTAS ]

breed [P-BTAHI ]

breed [ P-BTBHC]

breed [ P-BTBS]

breed [ P-BTBHI]

breed [P-SST ]

breed [ P-SET]

breed [ P-STX]

breed [P-PM ]

breed [ P-PIM]

breed [P-PINTL ]

BREED [P-ET] ENTERTAINMENT TAX

#Now increasing tax on one entity cannot guarantee that the total revenue will go up. Increasing one tax may decrease population of one or more other entities which may result in decease of total revenue. Or decreasing one entity can result increase of population of other entities which may result in increase in revenue. The effect of every tax by 1% may cause other entities to change which is given below. Total revenue will be calculated after 5 ticks(1 tick=1 year) and compared to previous total gross revenue. If it is more, then it can be concluded that increasing income tax on certain population has positive impact on revenue, otherwise negative.

The minimum and maximum population values will be set so that program should not go into infinity.

TOTAL REVENUE=SUM OF ((TAX RATE[NUMBER]\* POPULATION))

if breed [PIAPI ] increases 1%

{

[P-PIAPI] decreases by 1%

[P-PIBPI ] decreases by 0.5%

[P-PIASE] decreases by 0.5%

[P-PIBSE] decreases by 0.5%

[P-BTBS] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-SST] decreases by 1%

[P-SET]decreases by 0.5%

[P-STX] INCREASES BY 1%

[P-PM] INCREASES BY 2%

[P-PIM] DECREASES BY 5%

[P-INTL] DECREASES BY 5%

[P-ET] DECREASES BY 5%

}

if breed [PIBPI ] increases

{

[P-PIAPI] decreases by 1%

[P-PIBPI ] decreases by 1%

[P-PIASE] decreases by 1%

[P-PIBSE] decreases by 1%

[P-BTBS] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-SST] decreases by 1%

[P-SET]decreases by 0.5%

[P-STX] INCREASES BY 1%

[P-PM] INCREASES BY 2%

[P-PIM] DECREASES BY 5%

[P-INTL] DECREASES BY 5%

[P-ET] DECREASES BY 5%

}

if breed [PICPI ] increases

{

[P-PICPI] decreases by 2%

[P-PIBPI ] decreases by 0.5%

[P-PICSE] decreases by 0.5%

[P-BTAS] DECREASES BY 2%

[P-BTBS] decreases by 0.5%

[P-SST] decreases by 2%

[P-SET]decreases by 2%

[P-PM] INCREASES BY 3%

[P-PIM] DECREASES BY 10%

[P-INTL] DECREASES BY 5%

[P-ET] DECREASES BY 5%

}

if breed [PIDPI ] increases

{

[P-PIAPI] decreases by 1%

[P-PIBPI ] decreases by 0.5%

[P-PIASE] decreases by 0.5%

[P-PIBSE] decreases by 0.5%

[P-BTBS] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-SST] decreases by 1%

[P-SET]decreases by 0.5%

[P-STX] INCREASES BY 1%

[P-PM] INCREASES BY 2%

[P-PIM] DECREASES BY 5%

[P-INTL] DECREASES BY 5%

[P-ET] DECREASES BY 5%

}

if breed [PIDPI ] increases

{

[P-PIAPI] decreases by 1%

[P-PIBPI ] decreases by 0.5%

[P-PIASE] decreases by 0.5%

[P-PIBSE] decreases by 0.5%

[P-BTBS] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-SST] decreases by 1%

[P-SET]decreases by 0.5%

[P-STX] INCREASES BY 1%

[P-PM] INCREASES BY 2%

[P-PIM] DECREASES BY 5%

[P-INTL] DECREASES BY 5%

[P-ET] DECREASES BY 5%

}

if breed [PIASE ] increases

{

[P-PIASE] decreases by 1%

[P-PIBSE ] decreases by 0.5%

[P-PICSE] decreases by 0.5%

[P-BTAS] decreases by 3%

[P-BTAHI] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-SST] decreases by 1%

[P-SET]decreases by 0.5%

[P-STX] INCREASES BY 1%

[P-PM] INCREASES BY 2%

[P-PIM] DECREASES BY 5%

[P-INTL] DECREASES BY 5%

[P-ET] DECREASES BY 5%

}

if breed [PIBSE ] increases

{

[P-PIBSE] decreases by 2%

[P-PIASE ] decreases by 0.5%

[P-PICSE] decreases by 0.5%

[P-BTAS] decreases by 3%

[P-BTAHI] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-SST] decreases by 1%

[P-SET]decreases by 0.5%

[P-STX] INCREASES BY 1%

[P-PM] INCREASES BY 2%

[P-PIM] DECREASES BY 5%

[P-INTL] DECREASES BY 5%

[P-ET] DECREASES BY 5%

}

if breed [BTBS ] increases BY 1%

{

[P-BTAS] INCREASES BY 2%

[P- BTBS] decreases by 5%

[P-BTAHI] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-SST] INCREASE by 1%

[P-SET]decreases by 0.5%

[P-STX] INCREASES BY 2%

[P-INTL] INCREASES BY 5%

}

if breed [BTBHI ] increases BY 1%

{

[P-BTAHI] INCREASES BY 2%

[P- BTHI] decreases by 5%

[P-BTAHI] decreases by 0.5%

[P-BTBHI] decreases by 0.5%

[P-SST] INCREASE by 1%

[P-SET] decreases by 0.5%

[P-STX] INCREASES BY 2%

[P-INTL] INCREASES BY 5%

}

if breed [SST ] increases BY 1%

{

[P-SST] DECREASES BY 3%

[P- BTBHI] decreases by 2%

[P-BTAHI] decreases by 0.5%

[P-BTBS] decreases by 1%

[P-BTAS] DECREASES by 1%

}

If breed [SET] increases by 1%

{

[P-SET] DECREASES BY 1%

}

If breed [STX] increases

{

[P-STX] DECREASES BY 1%

}

If breed [PM] INCREASE BY 1%

{

[P-PM] DECREASES BY 5%

[P-PIM] INCREASES BY 5%

[P-PINTL] INCREASES BY 5%

}

If breed [PINTL] INCREASE BY 1%

{

[P-PINTL] DECREASES BY 2%

[P-PM] INCREASES BY 5%

[P-PIM] INCREASES BY 5%

}

If breed [ET] INCREASES BY 1%

{

[P-PINTL] DECREASES BY 2%

[P-SET] INCREASES BY 2%

}

if breed [PIAPI ] decreases 1%

{

[P-PIAPI] increases by 1%

[P-PIBPI ] increases by 0.5%

[P-PIASE] increases by 0.5%

[P-PIBSE] increases by 0.5%

[P-BTBS] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-SST] increases by 1%

[P-SET]increases by 0.5%

[P-STX] DECREASES BY 1%

[P-PM] DECREASES BY 2%

[P-PIM] INCREASES BY 5%

[P-INTL] INCREASES BY 5%

[P-ET] INCREASES BY 5%

}

if breed [PIBPI ] decreases

{

[P-PIAPI] increases by 1%

[P-PIBPI ] increases by 1%

[P-PIASE] increases by 1%

[P-PIBSE] increases by 1%

[P-BTBS] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-SST] increases by 1%

[P-SET]increases by 0.5%

[P-STX] DECREASES BY 1%

[P-PM] DECREASES BY 2%

[P-PIM] INCREASES BY 5%

[P-INTL] INCREASES BY 5%

[P-ET] INCREASES BY 5%

}

if breed [PICPI ] decreases

{

[P-PICPI] increases by 2%

[P-PIBPI ] increases by 0.5%

[P-PICSE] increases by 0.5%

[P-BTAS] INCREASES BY 2%

[P-BTBS] increases by 0.5%

[P-SST] increases by 2%

[P-SET]increases by 2%

[P-PM] DECREASES BY 3%

[P-PIM] INCREASES BY 10%

[P-INTL] INCREASES BY 5%

[P-ET] INCREASES BY 5%

}

if breed [PIDPI ] decreases

{

[P-PIAPI] increases by 1%

[P-PIBPI ] increases by 0.5%

[P-PIASE] increases by 0.5%

[P-PIBSE] increases by 0.5%

[P-BTBS] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-SST] increases by 1%

[P-SET]increases by 0.5%

[P-STX] DECREASES BY 1%

[P-PM] DECREASES BY 2%

[P-PIM] INCREASES BY 5%

[P-INTL] INCREASES BY 5%

[P-ET] INCREASES BY 5%

}

if breed [PIDPI ] decreases

{

[P-PIAPI] increases by 1%

[P-PIBPI ] increases by 0.5%

[P-PIASE] increases by 0.5%

[P-PIBSE] increases by 0.5%

[P-BTBS] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-SST] increases by 1%

[P-SET]increases by 0.5%

[P-STX] DECREASES BY 1%

[P-PM] DECREASES BY 2%

[P-PIM] INCREASES BY 5%

[P-INTL] INCREASES BY 5%

[P-ET] INCREASES BY 5%

}

if breed [PIASE ] decreases

{

[P-PIASE] increases by 1%

[P-PIBSE ] increases by 0.5%

[P-PICSE] increases by 0.5%

[P-BTAS] increases by 3%

[P-BTAHI] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-SST] increases by 1%

[P-SET]increases by 0.5%

[P-STX] DECREASES BY 1%

[P-PM] DECREASES BY 2%

[P-PIM] INCREASES BY 5%

[P-INTL] INCREASES BY 5%

[P-ET] INCREASES BY 5%

}

if breed [PIBSE ] decreases

{

[P-PIBSE] increases by 2%

[P-PIASE ] increases by 0.5%

[P-PICSE] increases by 0.5%

[P-BTAS] increases by 3%

[P-BTAHI] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-SST] increases by 1%

[P-SET]increases by 0.5%

[P-STX] DECREASES BY 1%

[P-PM] DECREASES BY 2%

[P-PIM] INCREASES BY 5%

[P-INTL] INCREASES BY 5%

[P-ET] INCREASES BY 5%

}

if breed [BTBS ] decreases BY 1%

{

[P-BTAS] DECREASES BY 2%

[P- BTBS] increases by 5%

[P-BTAHI] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-SST] INCREASE by 1%

[P-SET]increases by 0.5%

[P-STX] DECREASES BY 2%

[P-INTL] DECREASES BY 5%

}

if breed [BTBHI ] decreases BY 1%

{

[P-BTAHI] DECREASES BY 2%

[P- BTHI] increases by 5%

[P-BTAHI] increases by 0.5%

[P-BTBHI] increases by 0.5%

[P-SST] INCREASE by 1%

[P-SET] increases by 0.5%

[P-STX] DECREASES BY 2%

[P-INTL] DECREASES BY 5%

}

if breed [SST ] decreases BY 1%

{

[P-SST] INCREASES BY 3%

[P- BTBHI] increases by 2%

[P-BTAHI] increases by 0.5%

[P-BTBS] increases by 1%

[P-BTAS] INCREASES by 1%

}

If breed [SET] decreases by 1%

{

[P-SET] INCREASES BY 1%

}

If breed [STX] decreases

{

[P-STX] INCREASES BY 1%

}

If breed [PM] INCREASE BY 1%

{

[P-PM] INCREASES BY 5%

[P-PIM] DECREASES BY 5%

[P-PINTL] DECREASES BY 5%

}

If breed [PINTL] INCREASE BY 1%

{

[P-PINTL] INCREASES BY 2%

[P-PM] DECREASES BY 5%

[P-PIM] DECREASES BY 5%

}

If breed [ET] DECREASES BY 1%

{

[P-PINTL] INCREASES BY 2%

[P-SET] DECREASES BY 2%

}