All Virtues, Subvirtues and Passions are between -100 and 100.

Table 1: General Character Variables

Name	Data Type	Purpose
STATE_OF_GRACE	Boolean	Is the character in a State of Grace?
NAME	String	Character name
AGE	Integer	Character Age
MORTAL_SINS_REMAINING	Integer	What it says

Table 2: Virtues and Subvirtues

Name	Data Type	Purpose
VIRTUE_PRUDENCE_SUBVIRTUE_MEMORY	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_UNDERSTANDING	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_DOCILTY	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_SHREWDNESS	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_REASON	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_FORESIGHT	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_CICUMSPECTION	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_CAUTION	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_EUBULIA	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_SYNESIS	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVIRTUE_GNOME	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVICE_PRECIPITATION	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVICE_INCONSIDERATION	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVICE_INCONSTANCY	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVICE_NEGLIGENCE	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVICE_CARNAL_PRUDENCE	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVICE_CRAFTINESS	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVICE_GUILE	Integer	Represents the Sub Virtue
VIRTUE_PRUDENCE_SUBVICE_FRAUD	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_COMMUTATIVE	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_LEGAL	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_DISTRIBUTIVE	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_RESTITUTION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_RELIGION	Integer	Represents the Sub Virtue, negative the sub vice of Superstition
VIRTUE_JUSTICE_SUBVIRTUE_DEVOTION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_ADJURATION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_PIETY	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_PATRIOTISM	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_OBSERVANCES	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_DULIA	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_OBEDIENCE	Integer	Represents the Sub Virtue, negative being the Subvice of Disobedience
VIRTUE_JUSTICE_SUBVIRTUE_DILIGENCE	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_GRATITUDE	Integer	Represents the Sub Virtue, negative being the Sub Vice of Ingratitude
VIRTUE_JUSTICE_SUBVIRTUE_JUST_VINDICATION	Integer	Represents the Sub Virtue, with the negative being the subvice of Vengefulness
VIRTUE_JUSTICE_SUBVIRTUE_TRUTHFULNESS	Integer	Represents the Sub Virtue, with the negative being the subvice of Lying
VIRTUE_JUSTICE_SUBVIRTUE_FRIENDSHIP	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_LIBERALITY	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVIRTUE_EPIEKEIA	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_HUMAN_RESPECT	Integer	Represents the Sub Virtue

VIRTUE_JUSTICE_SUBVICE_MURDER	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_MUTLIATION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_THEFT	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_ROBBERY	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_JUDGMENT	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_FALSE_ACCUSATION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_PERJURY	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_CONTUMLEY	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_DETRACTION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_MURMURING	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_DERISION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_MALEDICTION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_USURY	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_ILLICIT_ADJURATION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_IDOLATRY	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_DIVINATION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_TEMPTING_GOD	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_SACRILEGE	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_SIMONY	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_SIMULATION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_BOASTING	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_IRONY	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_ADULATION	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_LITIGIOUS	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_AVARICE	Integer	Represents the Sub Virtue
VIRTUE_JUSTICE_SUBVICE_PRODIGALITY	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVIRTUE_MAGNANIMITY	Integer	Represents the Sub Virtue, negative portraying pusilanimity
VIRTUE_FORTITUDE_SUBVIRTUE_MAGNIFICENCE	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVIRTUE_PATIENCE	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVIRTUE_PERSEVERENCE	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVIRTUE_LONGANIMITY	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVIRTUE_MORTIFICATION	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVICE_FEAR	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVICE_FEARLESSNESS	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVICE_AUDACITY	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVICE_PRESUMPTION	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVICE_AMBITION	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVICE_INANE_GLORY	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVICE_PARVIFICENCE	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVICE_EFFEMINACY	Integer	Represents the Sub Virtue
VIRTUE_FORTITUDE_SUBVICE_PERTINACITY	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_SHAME	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_HONESTIA	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_ABSTINENCE	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_FASTING	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_SOBRIETY	Integer	Represents the Sub Virtue, negative representing Drunkenness
VIRTUE_TEMPERANCE_SUBVIRTUE_CONTINENCE	Integer	Represents the Sub Virtue, negative representing the subvice of Incontinence
VIRTUE_TEMPERANCE_SUBVIRTUE_CHASTITY	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_VIRGINITY	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_MEEKNESS	Integer	Represents the Sub Virtue, negative representing the subvice of Anger
VIRTUE_TEMPERANCE_SUBVIRTUE_MODESTY	Integer	Represents the Sub Virtue, negative representing the subvice of Immodesty

VIRTUE_TEMPERANCE_SUBVIRTUE_HUMILITY	Integer	Represents the Sub Virtue, negative representing the subvice of Pride
VIRTUE_TEMPERANCE_SUBVIRTUE_EUTRAPELIA	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_SPORTSMANSHIP	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_DECORUM	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_SILENCE	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVIRTUE_STUDIOUSITY	Integer	Represents the Sub Virtue, negative representing the subvice of Curiousity
VIRTUE_TEMPERANCE_SUBVIRTUE_SIMPLICTY	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_GLUTTONY	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_LUST	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_FORNICATION	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_CHEATING	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_RAPE	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_ADULTERY	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_INCEST	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_CRUELTY	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_CRUDITY	Integer	Represents the Sub Virtue
VIRTUE_TEMPERANCE_SUBVICE_IMMODESTY	Integer	Represents the Sub Virtue
VIRTUE_FAITH_SUBVICE_INFIDELITY	Integer	Represents the Sub Virtue
VIRTUE_FAITH_SUBVICE_HERESY	Integer	Represents the Sub Virtue
VIRTUE_FAITH_SUBVICE_APOSTASY	Integer	Represents the Sub Virtue
VIRTUE_FAITH_SUBVICE_BLASPHEMY	Integer	Represents the Sub Virtue
VIRTUE_FAITH	Integer	Represents the Virtue
VIRTUE_HOPE_SUBVICE	Integer	Represents the Sub Vice, positive Presumption, negative Desperation
VIRTUE_HOPE	Integer	Represents the Virtue
VIRTUE_CHARITY_SUBVICE_HATRED_OF_GOD	Integer	Represents the Sub Virtue
VIRTUE_CHARITY_SUBVICE_SLOTH	Integer	Represents the Sub Virtue
VIRTUE_CHARITY_SUBVICE_ENVY	Integer	Represents the Sub Virtue
VIRTUE_CHARITY_SUBVICE_DISCORD	Integer	Represents the Sub Virtue
VIRTUE_CHARITY_SUBVICE_CONTENTION	Integer	Represents the Sub Virtue
VIRTUE_CHARITY_SUBVICE_SCHISM	Integer	Represents the Sub Virtue
VIRTUE_CHARITY_SUBVICE_UNJUST_WAR	Integer	Represents the Sub Virtue
VIRTUE_CHARITY_SUBVICE_QUARRELLING	Integer	Represents the Sub Virtue
VIRTUE_CHARITY_SUBVICE_SCANDAL	Integer	Represents the Sub Virtue
VIRTUE_CHARITY	Integer	Represents the Virtue

Table 3: General Passions from Thomistica.net

Name	Data Type	Purpose
LOVE	Integer (Negative being hatred positive Love)	Governs Concupisible natural Love
PLEASURE	Integer (Negative being Sorrow Positive Pleasure)	Governs Concupisible Pleasure (as opposed to indulging the Irascible appetite)
HOPE	Integer (Negative being Despair Positive Hope)	Governs Irascible natural Hope
DARING	Integer (Negative being fear, Positive Daring)	Governs Irascible Courage
ANGER	Integer(Negative being anger and postive confidence)	Governs Anger

Table 4: Relationship Passions

Name	Data Type	Purpose
LOVE	Integer (Negative being hatred positive Love)	Governs Concupisible natural Love
PLEASURE	Integer (Negative being Sorrow Positive Pleasure)	Governs Concupisible Pleasure (as opposed to indulging the Irascible appetite)
HOPE	Integer (Negative being Despair Positive Hope)	Governs Irascible natural Hope
DARING	Integer (Negative being fear, Positive Daring)	Governs Irascible Courage
ANGER	Integer(Negative being anger and postive confidence)	Governs Anger

Table 5: Story Event Structure besides Character Variables

Name	Data Type	Purpose
id	String	Identifier inside of a dictionary which selects the event
TYPE	String	Actual Grace Or Temptation?
PRECONDITIONS	SubObject	Holds Minimal Preconditions of the Character
POSTCONDITIONS_ACCEPT	SubObject	Holds Character results on acceptance of grace (Either to accept Actual Grace or to Reject a Temptation
POSTCONDITIONS_REJECT	SubObject	Holds Character results on rejection of grace (Either to reject Actual Grace or to fall into a Temptation
QUOTES_SCRIPTURE	Boolean	Is scripture quoted at the end of the event as flavour text?
STATE_OF_GRACE	Boolean	How does this impact the character's state of grace?
OUTPUT	String	Output on Post Condition
SCRIPTURE_BANK	SubObject	Contains all of the Scriptural variations
VERSES	Array Of Strings	Contains all of the Scriptural verse blocks
SECOND_CHARACTER	Boolean	Is there a second character involved? Also, this as a prefix to the virtue and passion statements indicate this character is referred to
THIRD_CHARACTER	Boolean	Is there a third character involved? Also, this as a prefix to the virtue and passion statements indicate this character is referred to
_UNDER	Suffix to a Virtue	Indicates the bound of a virtue or vice
_OVER	Suffix to a Virtue	Indicates the bound of a virtue or vice
_SECOND_PERSON	Suffix to a Passion prior to UNDER/OVER	Indicates the person which the passion is related
_THIRD_PERSON	Suffix to a Passion prior to UNDER/OVER	Indicates the person which the passion is related
CONSEQUENT_ACTIONS	Array of story action ids	Provides a set of randomly selected subsequent actions to be carried out

Table 6: Scripture Loading Class

Name	Data Type	Purpose

1 Will Algorithms

1.1 Actual Grace

If the total is lower than 60, then the grace is rejected

1. Generate a random integer 0 and 100

2. Add the summation of humility - pride

3. Add the summation of prudence (Subvirtues - Subvices)

4. If it's against another person, add the passions of the relationship together

5. Do the same with general passions

6. Add the passions again if they're mentioned in the PRE_CONDITIONS

7. Add the sub virtues in the PRE_CONDITIONS multiplied by 4

8. Subtract the sub vices PRE_CONDITIONS multiplied by 4

1.2   Temptation

If the total is lower than 60, then the grace is rejected

1. Generate a random integer 0 and 100

2. Add the summation of humility - pride

3. Add the summation of prudence (Subvirtues - Subvices)

4. If it's against another person, add the passions of the relationship together

5. Do the same with general passions item Add the passions again if they're mentioned in the PRE_CONDITIONS

6. Add the sub virtues in the PRE_CONDITIONS multiplied by 4

7. Subtract the sub vices in the PRE_CONDITIONS multiplied by 4

2   MOEA

3   Markov Chain Name Generator

4   LaTeX Output?