11 / 60 = 0.18333333333333333333333333333333

37 / 60 = 0.61666666666666666666666666666667

12 / 60 = 0.2

log(11/60) = -2.44745897697122127312469532671 14

log(37/60) = -0.69743722997956874746625419582403

log(12/60) = -2.32192809488736234787031942948 94

E(S) = -11/60 * log(11/60) – 37/60 * log(37/60) – 12/60 * log(12/60)

E(S) = 1.34317272324293043058444811655 31

LIVES

>= 9 – (up 0, same 0, down 8)

E(S1) = 0/8 * log(0/8) + 0/8 * log(0/8) * 8/8 * log(8/8) = 0

[1, 3] – (up 0, same 14, down 0)

E(S2) = 0/14 * log(0/14) + 14/14 * log(14/14) + 0/14 * log(0/14) = 0

[4, 8] – (up 11, same 23, down 4)

E(S3) = 11/38 * log(11/38) + 23/38 * log(23/38) + 4/38 * log(4/38)

11 / 38 = 0.28947368421052631578947368421053

23 / 38 = 0.60526315789473684210526315789474

4 / 38 = 0.10526315789473684210526315789474

log(11/38) = -1.78849589480628823759415637618 1

log(23/38) = -0.72436555738657262149937117874417

log(4/38) = -3.24792751344358549379351942290 68

E(S3) = 1.29804138727722849692619302475 62

Gain(lives) = 0.52107984463401904919785920087417

GOLD

< 60 – (up 0, same 9, down 5)

E(S1) = 9/14 * log(9/14) + 5/14 * log(5/14) = 0.94028595867063103561919087876699

9 / 14 = 0.64285714285714285714285714285714

5 / 14 = 0.35714285714285714285714285714286

log(9/14) = -0.63742992061529174453449142933 62

log(5/14) = -1.48542682717024175957164988774 24

[60, 180) – (up 9, same 24, down 7)

E(S2) = 9/40 * log(9/40) + 24/40 * log(24/40) + 7/40 * log(7/40) = 1.36643035777006763854154890782 86

9 / 40 = 0.225

24 / 40 = 0.6

7 / 40 = 0.175

log(9/40) = -2.15200309344504998496284154159 38

log(24/40) = -0.73696559416620616641658048554157

log(7/40) = -2.51457317282975824042835011225 76

>= 180 (up 2, same 4)

E(S3) = 2/6 * log(2/6) + 4/6 * log(4/6) = 0.91829583405448951478707227728114

2 / 6 = 0.33333333333333333333333333333333

4 / 6 = 0.66666666666666666666666666666667

log(2/6) = -1.58496250072115618145373894394782

log(4/6) = -0.58496250072115618145373894394782

Gain(gold) = 0.12098951096762247843356374522696

TECH

< 1.33 (up 5, same 13, down 6)

E(S1) = 5/24 * log(5/24) + 13/24 * log(13/24) + 6/24 * log(6/24) = 1.45058200844624172673571413909 49

5 / 24 = 0.20833333333333333333333333333333

13 / 24 = 0.54166666666666666666666666666667

6 / 24 = 0.25

log (5/24) = -2.26303440583379383358341951445 84

log(13/24) = -0.88452278258006402105692628969112

log(6/24) = -2

[1.33, 2) – (up 5, same 15, down 5)

E(S2) = 5/25 * log(5/25) + 15/25 * log(15/25) + 5/25 * log(5/25) = 1.37095059445466863899807606312 07

5 / 25 = 0.2

15 / 25 = 0.6

log(5/25) = -2.32192809488736234787031942948 94

log(15/25) = -0.73696559416620616641658048554157

>= 2 – (up 1, same 9, down 1)

E(S3) = 1/11 * log(1/11) + 9/11 * log(9/11) + 1/11 * log(1/11) = 0.86585661745722350472960841117482

1 / 11 = 0.090909090909090909090909090909090909

9 / 11 = 0.81818181818181818181818181818181818182

log(1/11) = -3.459431618637297256199363046725 8

log(9/11) = -0.28950661719498489329188515883016

Gain(tech) = 0.032970125641164164440535892566 13

Alegem atributul LIVES

E(S) = 1.29804138727722849692619302475 62

38 – (up 11, same 23, down 4)

GOLD

< 60 – (up 0, same 3, down 3)

E(S1) = 3/6 * log(3/6) + 3/6 * log(3/6) = 1

[60, 180) – (up 9, same 17, down 1)

E(S2) = 9/27 * log(9/27) + 17/27 * log(17/27) + 1/27 * log(1/27) = 1.12465812015470627745431226981 24

9 / 27 = 0.33333333333333333333333333333333 33

17 / 27 = 0.62962962962962962962962962962963

1 / 27 = 0.037037037037037037037037037037704

log(9/27) = -1.584962500721156181453738943 9478

log(17/27) = -0.667424660913129136107150821033 05

log(1/27) = -4.754887502163468544361216831843 4

>= 180 – (up 2, same 3, down 0)

E(S3) = 2/5 * log(2/5) + 3/5 * log(3/5) = 0.970950594454668638998076063120 7

2 / 5 = 0.4

3 / 5 = 0.6

log(2/5) = -1.321928094887362347870319429489 4

log(3/5) = -0.736965594166206166416580485541 57

Gain(gold) = 0.213290802633796584129961140531 51

TECH

< 1.33 – (up 5, same 7, down 0)

E(S1) = 5/12 * log(5/12) + 7/12 * log(7/12) = 0.979868756651152807166623746608 67

[1.33, 2) – (up 5, same 10, down 4)

E(S2) = 5/19 * log(5/19) + 10/19 * log(10/19) + 4/19 * log(4/19) = 1.467457964848299429685372504888 9

5 / 19 = 0.263157894736842105263157894736 84

10 / 19 = 0.526315789473684210526315789473 68

4 / 19 = 0.210526315789473684210526315789 47

log(5/19) = -1.925999418556223145923199993417 4

log(10/19) = -0.925999418556223145923199993417 44

log(4/19) = -2.247927513443585493793519422906 8

>= 2 – (up 1, same 6, down 0)

E(S3) = 1/7 * log(1/7) + 6/7 * log(6/7) = 0.591672778582327380481621650990 85

Gain(tech) = 0.145887811961233378152695285042 28

Alegem atributul GOLD