HOSPITAL SYSTEM

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;
;
;     Model statements for module:  BasicProcess.Create 2 (paitent Random1)
;

16$           CREATE,         5,HoursToBaseTime(0.0),Entity
1:HoursToBaseTime(EXPO(1)),8:NEXT(17$);

17$           ASSIGN:         paitent Random1.NumberOut=paitent Random1.NumberOut +
1:NEXT(0$);


;
;
;     Model statements for module:  BasicProcess.Decide 1 (Decide 1)
;
0$            BRANCH,         1:
                              With,(50)/100,1$,Yes:
                              Else,2$,Yes;

;
;
;     Model statements for module:  BasicProcess.Process 1 (Registration)
;
2$            ASSIGN:         Registration.NumberIn=Registration.NumberIn + 1:
                              Registration.WIP=Registration.WIP+1;
23$           DELAY:          Triangular(.5,1,1.5),,VA;
70$           ASSIGN:         Registration.NumberOut=Registration.NumberOut + 1:
                              Registration.WIP=Registration.WIP-1:NEXT(3$);


;
;
;     Model statements for module:  BasicProcess.Process 2 (Blood test)
;
3$            ASSIGN:         Blood test.NumberIn=Blood test.NumberIn + 1:
                              Blood test.WIP=Blood test.WIP+1;
76$           QUEUE,          Blood test.Queue;
75$           SEIZE,          2,VA:
                              paitent1,1:
                              paitent 2,1:
                              paitent 3,1:
                              paitent 4,1:
                              paitent 5,1:NEXT(74$);

74$           DELAY:          0.013333333333333,,VA;
73$           RELEASE:        paitent1,1:
                              paitent 2,1:
                              paitent 3,1:
                              paitent 4,1:
                              paitent 5,1;
121$          ASSIGN:         Blood test.NumberOut=Blood test.NumberOut + 1:
                              Blood test.WIP=Blood test.WIP-1:NEXT(4$);


;
;
;     Model statements for module:  BasicProcess.Decide 2 (sorting of paitence)
;
```

```
4$            BRANCH,        1:
                             With,(50)/100,124$,Yes:
                             Else,125$,Yes;
124$          ASSIGN:        sorting of paitence.NumberOut True=sorting of
paitence.NumberOut True + 1:NEXT(5$);

125$          ASSIGN:        sorting of paitence.NumberOut False=sorting of
paitence.NumberOut False + 1:NEXT(7$);


;
;
;     Model statements for module:  BasicProcess.Process 3 (Room 1 Dr consultation)
;
5$            ASSIGN:        Room 1 Dr consultation.NumberIn=Room 1 Dr
consultation.NumberIn + 1:
                             Room 1 Dr consultation.WIP=Room 1 Dr consultation.WIP+1;
129$          QUEUE,         Room 1 Dr consultation.Queue;
128$          SEIZE,         2,VA:
                             paitent1,1:
                             paitent 2,1:
                             paitent 3,1:
                             paitent 4,1:
                             paitent 5,1:NEXT(127$);

127$          DELAY:         0.016666666666667,,VA;
174$          ASSIGN:        Room 1 Dr consultation.NumberOut=Room 1 Dr
consultation.NumberOut + 1:
                             Room 1 Dr consultation.WIP=Room 1 Dr consultation.WIP-
1:NEXT(6$);


;
;
;     Model statements for module:  BasicProcess.Process 4 (medication with new
appointment)
;
6$            ASSIGN:        medication with new appointment.NumberIn=medication with
new appointment.NumberIn + 1:
                             medication with new appointment.WIP=medication with new
appointment.WIP+1;
178$          DELAY:         MinutesToBaseTime(Triangular(.5,1,1.5)),,VA;
177$          RELEASE:       paitent1,1:
                             paitent 2,1:
                             paitent 3,1:
                             paitent 4,1:
                             paitent 5,1;
225$          ASSIGN:        medication with new appointment.NumberOut=medication with
new appointment.NumberOut + 1:
                             medication with new appointment.WIP=medication with new
appointment.WIP-1:NEXT(1$);


;
;
;     Model statements for module:  BasicProcess.Dispose 2 (Dispose 2)
;
1$            ASSIGN:        Dispose 2.NumberOut=Dispose 2.NumberOut + 1;
228$          DISPOSE:       Yes;


;
;
```

```
;     Model statements for module:  BasicProcess.Process 5 (Room 2 Dr consultation)
;
7$            ASSIGN:        Room 2 Dr consultation.NumberIn=Room 2 Dr
consultation.NumberIn + 1:
                             Room 2 Dr consultation.WIP=Room 2 Dr consultation.WIP+1;
232$          QUEUE,         Room 2 Dr consultation.Queue;
231$          SEIZE,         2,VA:
                             paitent1,1:
                             paitent 2,1:
                             paitent 3,1:
                             paitent 4,1:
                             paitent 5,1:NEXT(230$);

230$          DELAY:         MinutesToBaseTime(Triangular(.5,.8,1.5)),,VA;
229$          RELEASE:       paitent1,1:
                             paitent 2,1:
                             paitent 3,1:
                             paitent 4,1:
                             paitent 5,1;
277$          ASSIGN:        Room 2 Dr consultation.NumberOut=Room 2 Dr
consultation.NumberOut + 1:
                             Room 2 Dr consultation.WIP=Room 2 Dr consultation.WIP-
1:NEXT(8$);


;
;
;     Model statements for module:  BasicProcess.Process 6 (ECG chicking)
;
8$            ASSIGN:        ECG chicking.NumberIn=ECG chicking.NumberIn + 1:
                             ECG chicking.WIP=ECG chicking.WIP+1;
283$          QUEUE,         ECG chicking.Queue;
282$          SEIZE,         2,VA:
                             paitent1,1:
                             paitent 2,1:
                             paitent 3,1:
                             paitent 4,1:
                             paitent 5,1:NEXT(281$);

281$          DELAY:         MinutesToBaseTime(Triangular(.5,.8,1.5)),,VA;
280$          RELEASE:       paitent1,1:
                             paitent 2,1:
                             paitent 3,1:
                             paitent 4,1:
                             paitent 5,1;
328$          ASSIGN:        ECG chicking.NumberOut=ECG chicking.NumberOut + 1:
                             ECG chicking.WIP=ECG chicking.WIP-1:NEXT(9$);


;
;
;     Model statements for module:  BasicProcess.Decide 3 (sorting of paitence
accordingly)
;
9$            BRANCH,        1:
                             With,(50)/100,331$,Yes:
                             Else,332$,Yes;
331$          ASSIGN:        sorting of paitence accordingly.NumberOut True=sorting of
paitence accordingly.NumberOut True + 1
                             :NEXT(10$);

332$          ASSIGN:        sorting of paitence accordingly.NumberOut False=sorting
of paitence accordingly.NumberOut False + 1
```

```
                              :NEXT(13$);


;
;
;     Model statements for module:  BasicProcess.Process 7 (dr consultation with
medication)
;
10$           ASSIGN:         dr consultation with medication.NumberIn=dr consultation
with medication.NumberIn + 1:
                              dr consultation with medication.WIP=dr consultation with
medication.WIP+1;
336$          QUEUE,          dr consultation with medication.Queue;
335$          SEIZE,          2,VA:
                              paitent1,1:
                              paitent 2,1:
                              paitent 3,1:
                              paitent 4,1:
                              paitent 5,1:NEXT(334$);

334$          DELAY:          MinutesToBaseTime(Triangular(.5,.8,1.5)),,VA;
381$          ASSIGN:         dr consultation with medication.NumberOut=dr consultation
with medication.NumberOut + 1:
                              dr consultation with medication.WIP=dr consultation with
medication.WIP-1:NEXT(11$);


;
;
;     Model statements for module:  BasicProcess.Process 8 (new appointment given)
;
11$           ASSIGN:         new appointment given.NumberIn=new appointment
given.NumberIn + 1:
                              new appointment given.WIP=new appointment given.WIP+1;
385$          DELAY:          MinutesToBaseTime(Triangular(.5,.8,1.5)),,VA;
384$          RELEASE:        paitent1,1:
                              paitent 2,1:
                              paitent 3,1:
                              paitent 4,1:
                              paitent 5,1;
432$          ASSIGN:         new appointment given.NumberOut=new appointment
given.NumberOut + 1:
                              new appointment given.WIP=new appointment given.WIP-
1:NEXT(12$);


;
;
;     Model statements for module:  BasicProcess.Dispose 3 (Dispose 3)
;
12$           ASSIGN:         Dispose 3.NumberOut=Dispose 3.NumberOut + 1;
435$          DISPOSE:        Yes;


;
;
;     Model statements for module:  BasicProcess.Process 9 (Dr consultation only)
;
13$           ASSIGN:         Dr consultation only.NumberIn=Dr consultation
only.NumberIn + 1:
                              Dr consultation only.WIP=Dr consultation only.WIP+1;
439$          QUEUE,          Dr consultation only.Queue;
438$          SEIZE,          2,VA:
```

```
                              paitent1,1:
                              paitent 2,1:
                              paitent 3,1:
                              paitent 4,1:
                              paitent 5,1:NEXT(437$);

437$          DELAY:          MinutesToBaseTime(Triangular(.5,.8,1.5)),,VA;
436$          RELEASE:        paitent1,1:
                              paitent 2,1:
                              paitent 3,1:
                              paitent 4,1:
                              paitent 5,1;
484$          ASSIGN:         Dr consultation only.NumberOut=Dr consultation
only.NumberOut + 1:
                              Dr consultation only.WIP=Dr consultation only.WIP-
1:NEXT(14$);


;
;
;     Model statements for module:  BasicProcess.Dispose 4 (Dispose 4)
;
14$           ASSIGN:         Dispose 4.NumberOut=Dispose 4.NumberOut + 1;
487$          DISPOSE:        Yes;


;
;
;     Model statements for module:  BasicProcess.Create 3 (paitent Random 2)
;

488$          CREATE,         5,HoursToBaseTime(0.0),Entity
1:HoursToBaseTime(EXPO(1)),8:NEXT(489$);

489$          ASSIGN:         paitent Random 2.NumberOut=paitent Random 2.NumberOut +
1:NEXT(2$);


;
;
;     Model statements for module:  BasicProcess.Create 4 (paitent costant)
;

492$          CREATE,         5,HoursToBaseTime(0.0),Entity
1:HoursToBaseTime(1),8:NEXT(493$);

493$          ASSIGN:         paitent costant.NumberOut=paitent costant.NumberOut +
1:NEXT(2$);


;
;
;     Model statements for module:  BasicProcess.Create 5 (paitent schedule)
;

496$          CREATE,         5,NSEXPO(Schedule 1),Entity 1:NSEXPO(Schedule
1),8:NEXT(497$);

497$          ASSIGN:         paitent schedule.NumberOut=paitent schedule.NumberOut +
1:NEXT(2$);


;
```

```
;
;     Model statements for module:  BasicProcess.Create 6 (paitent Expression)
;

500$          CREATE,        5,HoursToBaseTime(0.0),Entity
1:HoursToBaseTime(1),8:NEXT(501$);

501$          ASSIGN:        paitent Expression.NumberOut=paitent Expression.NumberOut
+ 1:NEXT(15$);


;
;
;     Model statements for module:  BasicProcess.Decide 4 (Decide 4)
;
15$           BRANCH,        1:
                             With,(50)/100,14$,Yes:
                             Else,3$,Yes;
```