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ภาคผนวก


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C     PERT PROGRAM
C     CODED FOR NEAC-2200
C     BY PRAWET SPISOONTHON
C     MAXIMUM ACTIVITIES = 70.
C     DESCRIPTION
C     I,J     NODE-NUMBER
C     LS     LATEST START TIME
C     LF     LATEST FINISH TIME
C     T      DURATION TIME
C     ES     EARLIEST START TIME
C     TS     TOTAL SLACK
C     FS     FREE SLACK
C     TMIN   PROJECT MINIMUM TIME
C     A     OPTIMISTIC TIME
C     M     MOST LIKELY TIME
C     B     PESSIMISTIC TIME

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001 DIMENSION I(70),J(70),T(70),ES(70),EF(70),ET(70),TF(70),
      IFF(70),SS(70),TS(70),FS(70)

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C     READ TOTAL NUMBER OF ACTIVITIES

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002 READ (2,1) N
003 1 FORMAT(I3)
004 WRITE (3,55)
005 55 FORMAT(6X,1HI,3X,1HJ,5X,1HA,8X,1HM,7X,1HB,8X,
      21HT,10X,2HSD,10X,3HVAR)

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C     READ DATA ACTIVITY, INODE, JNODE, AND ESTIMATE TIME

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006 DO 2 K=1,N
007 READ (2,3) I(K), J(K) A,B,C
010 3 FORMAT(2I2,3F6.2)
011 T(K) = (A+4.*B+C)/6.
012 S = (C-A)/6.
013 V = 5**2
014 WRITE (3,66) I(K), J(K), A,B,C,T(K),S,V
015 66 FORMAT(5X,12,2X,12,2X,F7.2,2X,F7.2,2X,F7.2,2X,F7.2,2X,F7.4,2X
      6F8.4//)
016 2 CONTINUE

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C     INITIALIZE NODE OCCURRENCE TIME

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017 DO 4 K=1,70
020 4 ET(K)=0.

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C     INITIALIZE TMIN: THE MINIMUM PROJECT DURATION

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021 TMIN = 0.

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C     FORWARD PASS CALCULATION

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022 DO 5 K=1,N
023 INODE = I(K)
024 JNODE = J(K)
025 ES(K) = ET(INODE)
026 EF(K) = ES(K)+T(K)
027 IF (EF(K) - ET(JNODE)) 6,6,7
028 7 ET (JNODE) = EF(K)

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031 6 IF (FF(K) - INT(115,5),R
032 8 TMIN = FF(K)
033 5 CONTINUE

C
C e BACKWARD PASS CALCULATION

034 DO 50 K=1,N
035 50 TT(K)=TMIN
036 DO 9 K=1,N
037 L=N+1-K
040 INODE = I(K)
041 JNODE = J(K)
042 FF(L)=TT(INODE)
043 SS(L)=FF(L)-T(L)
044 IF(SS(L)-T(INODE) 10,11,11
045 10 TT(JNODE)=SS(L)
046 11 TS(L)=SS(L)-ES(L)
047 9 CONTINUE

C
C e CALCULATE FREE SLACK

050 DO 12 K=1,N
051 JNODE = J(K)
052 12 FS(K)=TS(K)-TT(JNODE)+ET(JNODE)

C
C e PRINTOUT

053 WRITE (3,33)
054 33 FORMAT (7Y,1HT,4X,1HJ,6X,1HT,5X,2HFS,5X,2HEF,5X,2HLS,
25X,2HIF,5X,2HIS,5X,2HFS,5X,5HET(I),5X,5HT(J),4X,5HLT(I),5X,
35HLT(J)///)
055 DO 44 K=1,N
056 JNODE=J(K)
057 INODE=I(K)
060 44 WRITE (3,45) T(K),I(K),J(K),T(K),ES(K),FF(K),SS(K)-FF(K),
3TS(K),FS(K),ET(INODE),ET(JNODE),TT(INODE),TT(JNODE)
061 45 FORMAT (5Y,12,4X,1Y,1X,F7.2,1X,F7.2,1X,F7.2,1X,F7.2,
41X,F7.2,1X,F7.2,1X,F7.2,1X,F7.2,1X,F7.2,1X,F7.2,1X,F7.2///)
062 END

ภาคผนวก ๗

เวลา, ความเบี่ยงเบนมาตรฐานและแวลูเรียนท์

I	J	A	M	B	T	SD	V
1	2	1.10	1.36	1.50	1.34	.0667	.0044
1	3	17.00	17.16	17.50	17.19	.0833	.0069
2	3	0.00	0.00	0.00	0.00	.0000	.0000
1	4	0.75	0.81	0.90	0.82	.0250	.0006
1	5	17.00	17.16	17.50	17.19	.0833	.0069
4	5	0.00	0.00	0.00	0.00	.0000	.0000
1	6	0.50	0.53	0.60	0.54	.0167	.0003
1	7	17.00	17.16	17.50	17.19	.0833	.0069
6	7	0.00	0.00	0.00	0.00	.0000	.0000
1	8	1.10	1.36	1.50	1.34	.0667	.0044
1	9	1.10	1.36	1.50	1.34	.0667	.0044
1	10	1.10	1.36	1.50	1.34	.0667	.0044
1	11	1.35	1.44	1.50	1.44	.0250	.0006
10	11	0.00	0.00	0.00	0.00	.0000	.0000
1	12	3.05	3.11	3.20	3.12	.0250	.0006
1	13	23.00	24.16	25.00	24.11	.3333	.1111
12	13	0.00	0.00	0.00	0.00	.0000	.0000
3	14	1.05	1.11	1.20	1.12	.0250	.0006
14	15	1.10	1.36	1.50	1.34	.0667	.0044
14	16	4.00	5.00	6.20	5.03	.3667	.1345
15	16	0.00	0.00	0.00	0.00	.0000	.0000

ตารางที่ ๖ (ต่อ)

I	J	A	M	B	T	SD	V
16	17	1.05	1.11	1.20	1.12	.0250	.0006
17	18	0.50	0.53	0.60	0.54	.0167	.0003
18	19	0.25	0.28	0.30	0.28	.0083	.0001
5	20	0.50	0.56	0.59	0.56	.0150	.0002
19	20	15.00	16.61	17.00	16.41	.3333	.1111
20	21	0.50	0.56	0.60	0.56	.0167	.0003
21	22	14.00	16.91	17.00	16.44	.5000	.2500
21	23	23.00	24.16	25.00	24.11	.3333	.1111
22	23	0.00	0.00	0.00	0.00	.0000	.0000
21	24	1.10	1.36	1.50	1.34	.0667	.0044
23	24	0.00	0.00	0.00	0.00	.0000	.0000
24	25	1.05	1.11	1.20	1.12	.0250	.0006
7	26	0.25	0.28	0.30	0.28	.0083	.0001
8	26	0.25	0.28	0.30	0.28	.0083	.0001
9	26	0.25	0.28	0.30	0.28	.0083	.0001
26	27	1.10	1.36	1.50	1.34	.0667	.0044
26	28	9.00	10.00	11.00	10.00	.3333	.1111
27	28	0.00	0.00	0.00	0.00	.0000	.0000
26	29	0.50	0.53	0.60	0.54	.0167	.0003
28	29	0.00	0.00	0.00	0.00	.0000	.0000
29	30	1.05	1.11	1.20	1.12	.0250	.0006
30	31	1.10	1.36	1.50	1.34	.0667	.0044

ภาคผนวก ข (ต่อ)

I	J	A	M	B	T	SD	V
30	32	0.75	0.81	0.90	0.82	.0250	.0006
31	32	0.00	0.00	0.00	0.00	.0000	.0000
32	33	0.50	0.56	0.59	0.56	.0150	.0002
33	34	1.10	1.36	1.50	1.34	.0667	.0044
34	35	0.50	0.56	0.59	0.56	.0150	.0002
35	36	1.10	1.36	1.50	1.34	.0667	.0044
36	37	0.50	0.56	0.59	0.56	.0150	.0002
37	38	1.10	1.36	1.50	1.34	.0667	.0044
37	39	5.00	6.50	7.20	6.37	.3667	.1345
38	39	0.00	0.00	0.00	0.00	.0000	.0000
39	40	0.50	0.56	0.59	0.56	.0150	.0002
11	41	0.25	0.28	0.30	0.28	.0083	.0001
13	41	0.50	0.50	0.59	0.56	.0150	.0002
40	42	1.35	1.44	1.50	1.44	.0250	.0006
40	43	14.00	16.91	17.00	16.44	.5000	.2500
41	42	0.00	0.00	0.00	0.00	.0000	.0000
42	43	0.00	0.00	0.00	0.00	.0000	.0000
43	44	0.50	0.56	0.59	0.56	.0150	.0002
25	44	0.00	0.00	0.00	0.00	.0000	.0000
44	45	0.80	0.84	0.90	0.84	.0167	.0003
45	46	9.50	10.00	11.00	10.08	.2500	.0625

ภาคผนวก ก

ผลการคำนวณของ PERT-PROGRAM

i	j	T	ES	EF	LS	LF	TS	FC	ET(I)	ET(J)	LT(I)	LT(J)
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๒	๓	๐.๐๐	๑.๓๔	๑.๓๔	๑๗.๑๙	๑๗.๑๙	๑๕.๘๕	๑๕.๘๕	๑.๓๔	๑๗.๑๙	๑๗.๑๙	๑๗.๑๙
๑	๔	๐.๘๒	๐.๐๐	๐.๘๒	๕๑.๗๑	๕๒.๕๓	๕๑.๗๑	๐.๐๐	๐.๐๐	๐.๘๒	๐.๐๐	๕๒.๕๓
๑	๕	๑๗.๑๙	๐.๐๐	๑๗.๑๙	๓๕.๓๔	๕๒.๕๓	๓๕.๓๔	๐.๐๐	๐.๐๐	๑๗.๑๙	๐.๐๐	๕๒.๕๓
๔	๕	๐.๐๐	๐.๘๒	๐.๘๒	๕๒.๕๓	๕๒.๕๓	๕๑.๗๑	๑๖.๓๘	๐.๘๒	๑๗.๑๙	๕๒.๕๓	๕๒.๕๓
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๑๒	๑๓	๐.๐๐	๓.๑๒	๓.๑๒	๖๖.๓๖	๖๖.๓๖	๖๓.๒๔	๒๐.๕๕	๓.๑๒	๒๔.๑๑	๖๖.๓๖	๖๖.๓๖

ກຳນົດ (໗໐)

ຜູ້ກຳນົດຂອງ PERT-PROGRAM

i	j	T	ES	EF	LS	LF	TS	FS	ET(I)	ET(J)	LT(I)	LT(J)
໓	໑໔	໑.໑໒	໑໗.໑໔	໑໘.໓໑	໑໗.໑໔	໑໘.໓໑	໐.໐໐	໐.໐໐	໑໗.໑໔	໑໘.໓໑	໑໗.໑໔	໑໘.໓໑
໑໔	໑໕	໑.໓໔	໑໘.໓໑	໑໙.໖໕	໒໓.໐໐	໒໓.໓໔	໓.໖໕	໐.໐໐	໑໘.໓໑	໑໙.໖໕	໑໘.໓໑	໒໓.໓໔
໑໔	໑໖	໕.໐໓	໑໘.໓໑	໒໓.໓໔	໑໘.໓໑	໒໓.໓໔	໐.໐໐	໐.໐໐	໑໘.໓໑	໒໓.໓໔	໑໘.໓໑	໒໓.໓໔
໑໕	໑໖	໐.໐໐	໑໙.໖໕	໑໙.໖໕	໒໓.໓໔	໒໓.໓໔	໓.໖໕	໓.໖໕	໑໙.໖໕	໒໓.໓໔	໒໓.໓໔	໒໓.໓໔
໑໖	໑໗	໑.໑໒	໒໓.໓໔	໒໔.໔໖	໒໓.໓໔	໒໔.໔໖	໐.໐໐	໐.໐໐	໒໓.໓໔	໒໔.໔໖	໒໓.໓໔	໒໔.໔໖
໑໗	໑໘	໐.໕໔	໒໔.໔໖	໒໕.໐໐	໒໔.໔໖	໒໕.໐໐	໐.໐໐	໐.໐໐	໒໔.໔໖	໒໕.໐໐	໒໔.໔໖	໒໕.໐໐
໑໘	໑໙	໐.໒໔	໒໕.໐໐	໒໕.໒໔	໒໕.໐໐	໒໕.໒໔	໐.໐໐	໐.໐໐	໒໕.໐໐	໒໕.໒໔	໒໕.໐໐	໒໕.໒໔
໕	໒໐	໐.໕໖	໑໗.໑໔	໑໗.໗໐	໒໑.໑໓	໒໑.໖໙	໒໓.໗໐	໒໓.໗໐	໑໗.໑໔	໒໑.໖໙	໒໑.໑໓	໒໑.໖໙
໑໙	໒໐	໑໖.໔໑	໒໕.໒໔	໒໑.໖໙	໒໕.໒໔	໒໑.໖໙	໐.໐໐	໐.໐໐	໒໕.໒໔	໒໑.໖໙	໒໕.໒໔	໒໑.໖໙
໒໐	໒໑	໐.໕໖	໒໑.໖໙	໒໑.໒໕	໒໑.໖໙	໒໑.໒໕	໐.໐໐	໐.໐໐	໒໑.໖໙	໒໑.໒໕	໒໑.໖໙	໒໑.໒໕
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໒໑	໒໓	໒໔.໑໑	໒໑.໒໕	໒໑.໖໙	໒໑.໒໕	໒໑.໖໙	໐.໐໐	໐.໐໐	໒໑.໒໕	໒໑.໖໙	໒໑.໒໕	໒໑.໖໙
໒໒	໒໓	໐.໐໐	໒໑.໖໙	໒໑.໖໙	໒໑.໖໙	໒໑.໖໙	໗.໖໙	໗.໖໙	໒໑.໖໙	໒໑.໖໙	໒໑.໖໙	໒໑.໖໙
໒໑	໒໔	໑.໓໔	໒໑.໒໕	໒໑.໕໙	໒໕.໐໒	໒໑.໖໙	໒໑.໖໙	໒໑.໖໙	໒໑.໒໕	໒໑.໖໙	໒໑.໒໕	໒໑.໖໙
໒໓	໒໔	໐.໐໐	໒໑.໖໙	໒໑.໖໙	໒໑.໖໙	໒໑.໖໙	໐.໐໐	໐.໐໐	໒໑.໖໙	໒໑.໖໙	໒໑.໖໙	໒໑.໖໙
໒໔	໒໕	໑.໑໒	໒໑.໖໙	໒໑.໘໑	໒໑.໖໙	໒໑.໘໑	໐.໐໐	໐.໐໐	໒໑.໖໙	໒໑.໘໑	໒໑.໖໙	໒໑.໘໑

ภาคผนวก ก (๓๐)

ผลการคำนวณของ PERT-PROGRAM

i	j	T	ES	EF	LS	LF	TS	FS	ET(I)	ET(J)	LT(I)	LT(J)
๗	๒๒	๐.๒๘	๑๗.๑๙	๑๗.๔๗	๒๒.๔๕	๒๒.๔๕	๙.๒๒	๐.๐๐	๑๗.๑๙	๑๗.๔๗	๒๒.๔๕	๒๒.๗๓
๘	๒๒	๐.๒๘	๑.๓๘	๑.๖๒	๒๒.๔๕	๒๒.๗๓	๒๕.๑๑	๑๕.๘๕	๑.๓๘	๑๗.๔๗	๒๒.๔๕	๒๒.๗๓
๙	๒๒	๐.๒๘	๑.๓๘	๑.๖๒	๒๒.๔๕	๒๒.๗๓	๒๕.๑๑	๑๕.๘๕	๑.๓๘	๑๗.๔๗	๒๒.๔๕	๒๒.๗๓
๒๒	๒๓	๑.๓๘	๑๗.๔๗	๑๘.๘๑	๓๕.๓๙	๓๖.๗๓	๑๗.๙๒	๐.๐๐	๑๗.๔๗	๑๘.๘๑	๒๒.๔๕	๓๖.๗๓
๒๒	๒๔	๑๐.๐๐	๑๗.๔๗	๒๓.๗๗	๒๒.๗๓	๓๖.๗๓	๙.๒๒	๐.๐๐	๑๗.๔๗	๒๓.๗๗	๒๒.๗๓	๓๖.๗๓
๒๓	๒๔	๐.๐๐	๑๘.๘๑	๑๘.๘๑	๓๖.๗๓	๓๖.๗๓	๑๗.๙๒	๘.๖๖	๑๘.๘๑	๒๓.๗๗	๓๖.๗๓	๓๖.๗๓
๒๒	๒๕	๐.๕๕	๑๗.๔๗	๑๘.๐๑	๓๕.๑๙	๓๖.๗๓	๑๘.๙๒	๙.๕๖	๑๗.๔๗	๒๓.๗๗	๒๒.๗๓	๓๖.๗๓
๒๔	๒๕	๐.๐๐	๒๓.๗๗	๒๓.๗๗	๓๖.๗๓	๓๖.๗๓	๙.๒๒	๐.๐๐	๒๓.๗๗	๒๓.๗๗	๓๖.๗๓	๓๖.๗๓
๒๕	๓๐	๑.๑๒	๒๓.๗๗	๒๔.๕๙	๓๖.๗๓	๓๗.๘๕	๙.๒๒	๐.๐๐	๒๓.๗๗	๒๔.๕๙	๓๖.๗๓	๓๖.๗๓
๓๐	๓๑	๑.๓๘	๒๔.๕๙	๒๕.๙๓	๓๗.๘๕	๓๘.๑๙	๙.๒๒	๐.๐๐	๒๔.๕๙	๒๕.๙๓	๓๗.๘๕	๓๘.๑๙
๓๐	๓๒	๐.๘๒	๒๔.๕๙	๒๕.๔๑	๓๘.๓๗	๓๘.๑๙	๙.๗๘	๐.๕๒	๒๔.๕๙	๒๕.๙๓	๓๗.๘๕	๓๘.๑๙
๓๑	๓๒	๐.๐๐	๒๕.๙๓	๒๕.๙๓	๓๘.๑๙	๓๘.๑๙	๙.๒๒	๐.๐๐	๒๕.๙๓	๒๕.๙๓	๓๘.๑๙	๓๘.๑๙
๓๒	๓๓	๐.๕๖	๒๕.๙๓	๓๐.๔๙	๓๘.๑๙	๓๘.๗๕	๙.๒๒	๐.๐๐	๒๕.๙๓	๓๐.๔๙	๓๘.๑๙	๓๘.๗๕
๓๓	๓๔	๑.๓๘	๓๐.๔๙	๓๑.๘๓	๓๘.๗๕	๔๑.๐๙	๙.๒๒	๐.๐๐	๓๐.๔๙	๓๑.๘๓	๓๘.๗๕	๔๑.๐๙
๓๔	๓๕	๐.๕๖	๓๑.๘๓	๓๒.๓๗	๔๑.๐๙	๔๑.๖๕	๙.๒๒	๐.๐๐	๓๑.๘๓	๓๒.๓๗	๔๑.๐๙	๔๑.๖๕
๓๕	๓๖	๑.๓๘	๓๒.๓๗	๓๓.๗๑	๔๑.๖๕	๔๒.๙๙	๙.๒๒	๐.๐๐	๓๒.๓๗	๓๓.๗๑	๔๑.๖๕	๔๒.๙๙

ภาคผนวก ก (ต่อ)

ผลการคำนวณของ PERT -PROGRAM

i	j	T	ES	EF	LS	LF	TF	FS	ET(I)	ET(J)	LT(I)	LT(J)
๓๖	๓๗	๐.๕๖	๓๓.๗๓	๓๔.๒๙	๒๒.๙๙	๓๓.๕๕	๙.๖๖	๐.๐๐	๓๓.๗๕	๓๔.๒๙	๒๒.๙๙	๓๓.๕๕
๓๗	๓๘	๑.๓๔	๓๔.๒๙	๓๕.๖๓	๔๘.๕๓	๔๙.๙๒	๑๕.๒๙	๐.๐๐	๓๔.๒๙	๓๕.๖๓	๔๘.๕๕	๔๙.๙๒
๓๗	๓๙	๖.๓๗	๓๔.๒๙	๔๐.๖๖	๓๓.๕๕	๔๙.๙๒	๙.๖๖	๐.๐๐	๓๔.๒๙	๔๐.๖๖	๓๓.๕๕	๔๙.๙๒
๓๘	๓๙	๐.๐๐	๓๕.๖๓	๓๕.๖๓	๔๙.๙๒	๔๙.๙๒	๑๕.๒๙	๕.๐๓	๓๕.๖๓	๔๐.๖๖	๔๙.๙๒	๔๙.๙๒
๓๙	๔๐	๐.๕๖	๔๐.๖๖	๔๑.๒๒	๔๙.๙๒	๕๐.๔๘	๙.๖๖	๐.๐๐	๔๐.๖๖	๔๑.๒๒	๔๙.๙๒	๕๐.๔๘
๑๑	๑๑	๐.๒๘	๑.๔๔	๑.๗๒	๖๖.๖๔	๖๖.๙๒	๖๕.๒๐	๒๒.๙๔	๑.๔๔	๒๔.๖๖	๖๖.๖๔	๖๖.๙๒
๑๓	๑๑	๐.๕๖	๒๔.๑๑	๒๔.๖๖	๖๖.๓๖	๖๖.๙๒	๒๒.๖๖	๐.๐๐	๒๔.๑๑	๒๔.๖๖	๖๖.๓๖	๖๖.๙๒
๔๐	๒๒	๑.๔๔	๔๑.๒๒	๒๒.๖๖	๖๕.๔๘	๖๖.๙๒	๒๔.๒๖	๐.๐๐	๔๑.๒๒	๒๒.๖๖	๕๐.๔๘	๖๖.๙๒
๑๑	๒๒	๐.๐๐	๒๔.๖๖	๒๔.๖๖	๖๖.๙๒	๖๖.๙๒	๒๒.๖๖	๑๘.๐๐	๒๔.๖๖	๒๒.๖๖	๖๖.๙๒	๖๖.๙๒
๔๐	๓๓	๑๖.๔๔	๔๑.๒๒	๕๗.๖๖	๕๐.๔๘	๖๖.๙๒	๙.๖๖	๐.๐๐	๔๑.๒๒	๕๗.๖๖	๕๐.๔๘	๖๖.๙๒
๒๒	๓๓	๐.๐๐	๒๒.๖๖	๒๒.๖๖	๖๖.๙๒	๖๖.๙๒	๒๔.๖๖	๑๕.๐๐	๒๒.๖๖	๕๗.๖๖	๖๖.๙๒	๖๖.๙๒
๓๓	๔๔	๐.๕๖	๕๗.๖๖	๕๘.๒๒	๖๖.๙๒	๖๗.๔๘	๙.๖๖	๙.๖๖	๕๗.๖๖	๖๗.๒๒	๖๖.๙๒	๖๗.๔๘
๒๕	๔๔	๐.๐๐	๖๗.๔๘	๖๗.๔๘	๖๗.๔๘	๖๗.๔๘	๐.๐๐	๐.๐๐	๖๗.๔๘	๖๗.๔๘	๖๗.๔๘	๖๗.๔๘
๔๔	๕๕	๐.๘๔	๖๗.๔๘	๖๘.๓๒	๖๗.๔๘	๖๘.๓๒	๐.๐๐	๐.๐๐	๖๗.๔๘	๖๘.๓๒	๖๗.๔๘	๖๘.๓๒
๕๕	๖๖	๑๐.๐๘	๖๘.๓๒	๗๘.๔๐	๖๘.๓๒	๖๘.๔๐	๐.๐๐	๐.๐๐	๖๘.๓๒	๗๘.๔๐	๖๘.๓๒	๗๘.๔๐

ประวัติการศึกษา

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