

บรรณานุกรม

หนังสือ

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ภาคผนวก ก

แผนผังและโปรแกรมคอมพิวเตอร์
ในการคำนวณการวางแผนความต้องการวัตถุดิบ



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Structure for database : A:std_stru.dbf

Number of data records : 1

Date of last update : 01/05/86

Field	Field name	Type	Width	Dec
1	PART_NO	Character	11	
2	ITEM	Character	5	
3	LEVEL_CODE	Numeric	2	
4	LOT_SIZE	Numeric	5	
5	LEAD_TIME	Numeric	2	
6	ON_HAND	Numeric	5	
7	SAFE_STOCK	Numeric	5	
8	TRAN_NQ0	Character	7	
9	TRAN_NQ1	Character	7	
10	TRAN_NQ2	Character	7	
11	TRAN_NQ3	Character	7	
12	TRAN_NQ4	Character	7	
13	TRAN_NQ5	Character	7	
14	TRAN_NQ6	Character	7	
15	TRAN_NQ7	Character	7	
16	TRAN_NQ8	Character	7	
17	TRAN_NQ9	Character	7	
**	Total	**	106	

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Structure for database : A:period.dbf

Number of data records : 6

Date of last update : 01/05/86

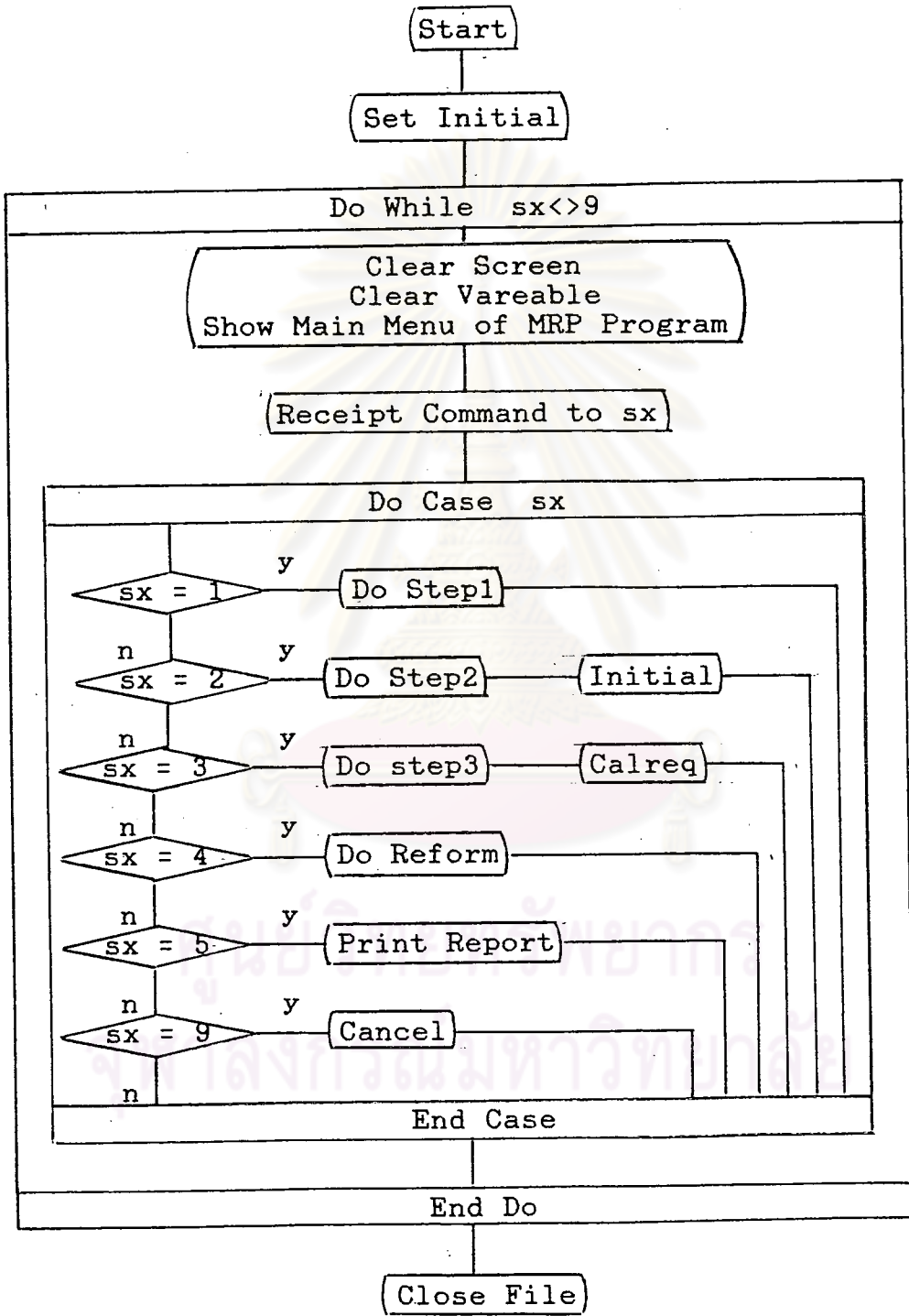
Field	Field name	Type	Width	Dec
1	DESCRIP	Character	25	
2	BPD	Numeric	6	
3	PD	Numeric	6	
4	PD101	Numeric	6	
5	PD102	Numeric	6	
6	PD103	Numeric	6	
7	PD104	Numeric	6	
8	PD105	Numeric	6	
9	PD106	Numeric	6	
10	PD107	Numeric	6	
11	PD108	Numeric	6	
12	PD109	Numeric	6	
13	PD110	Numeric	6	
14	PD111	Numeric	6	
15	PD112	Numeric	6	
16	PD113	Numeric	6	

** Total ** 116

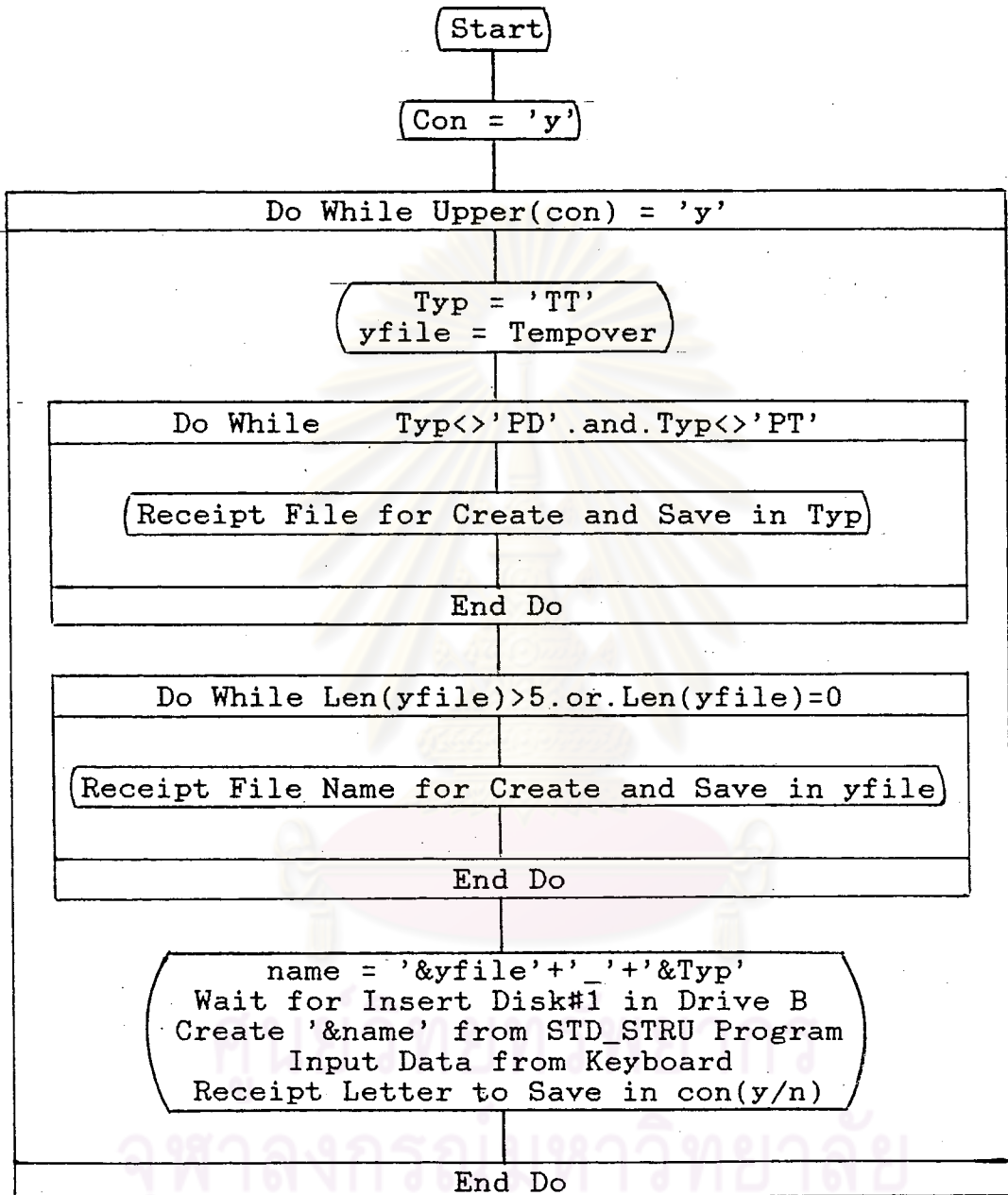


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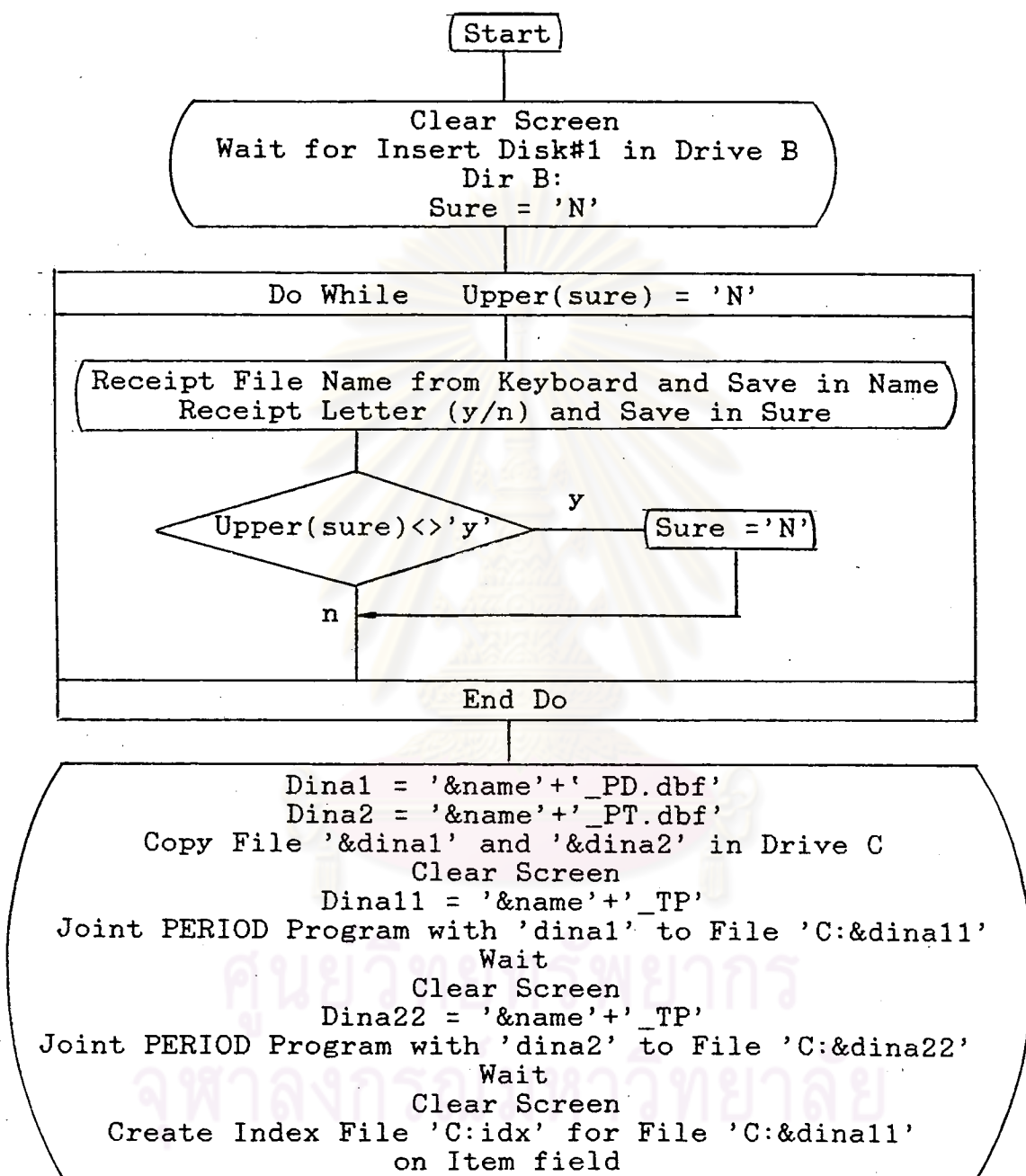
Program Menu



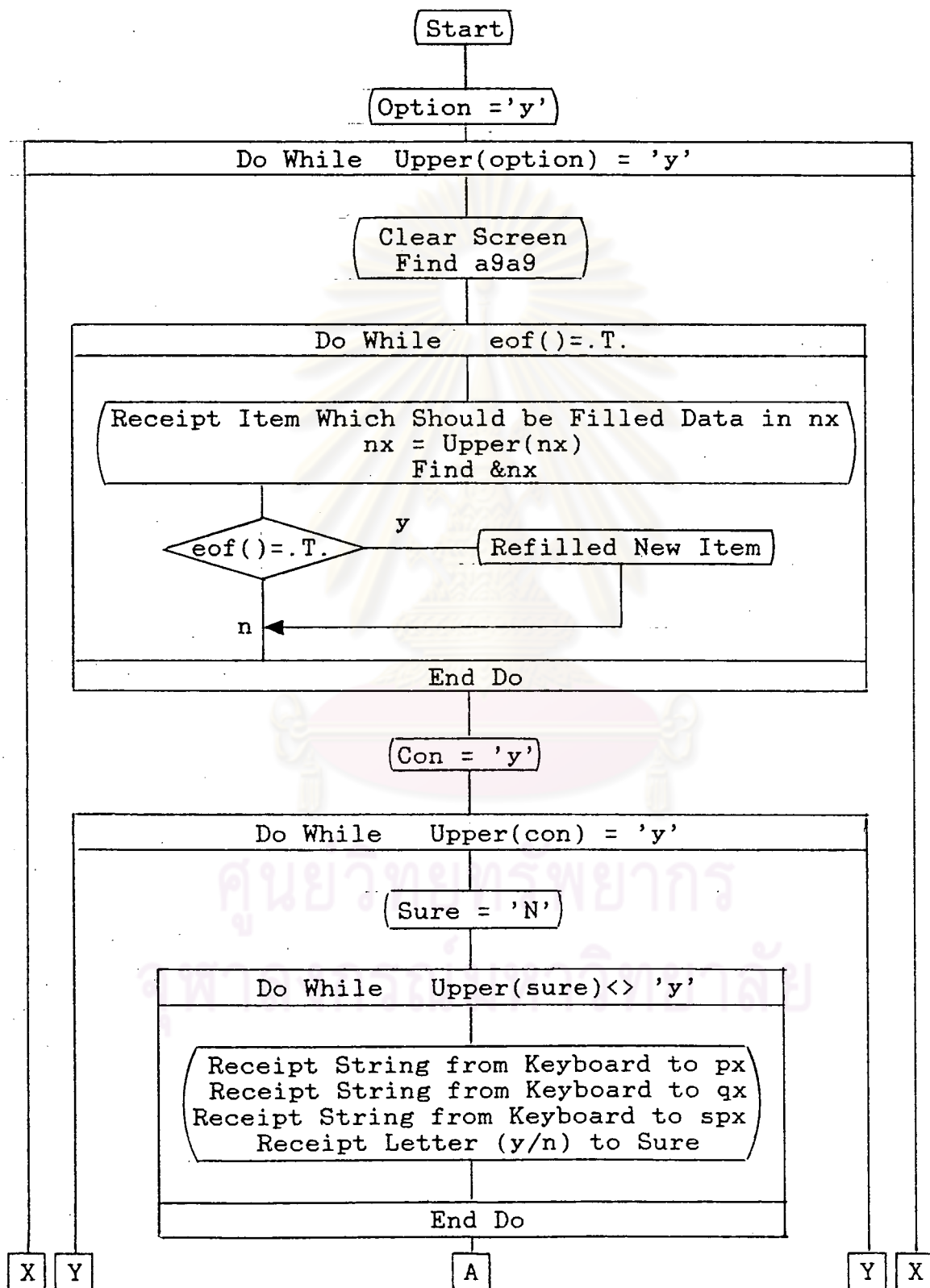
Program Step1

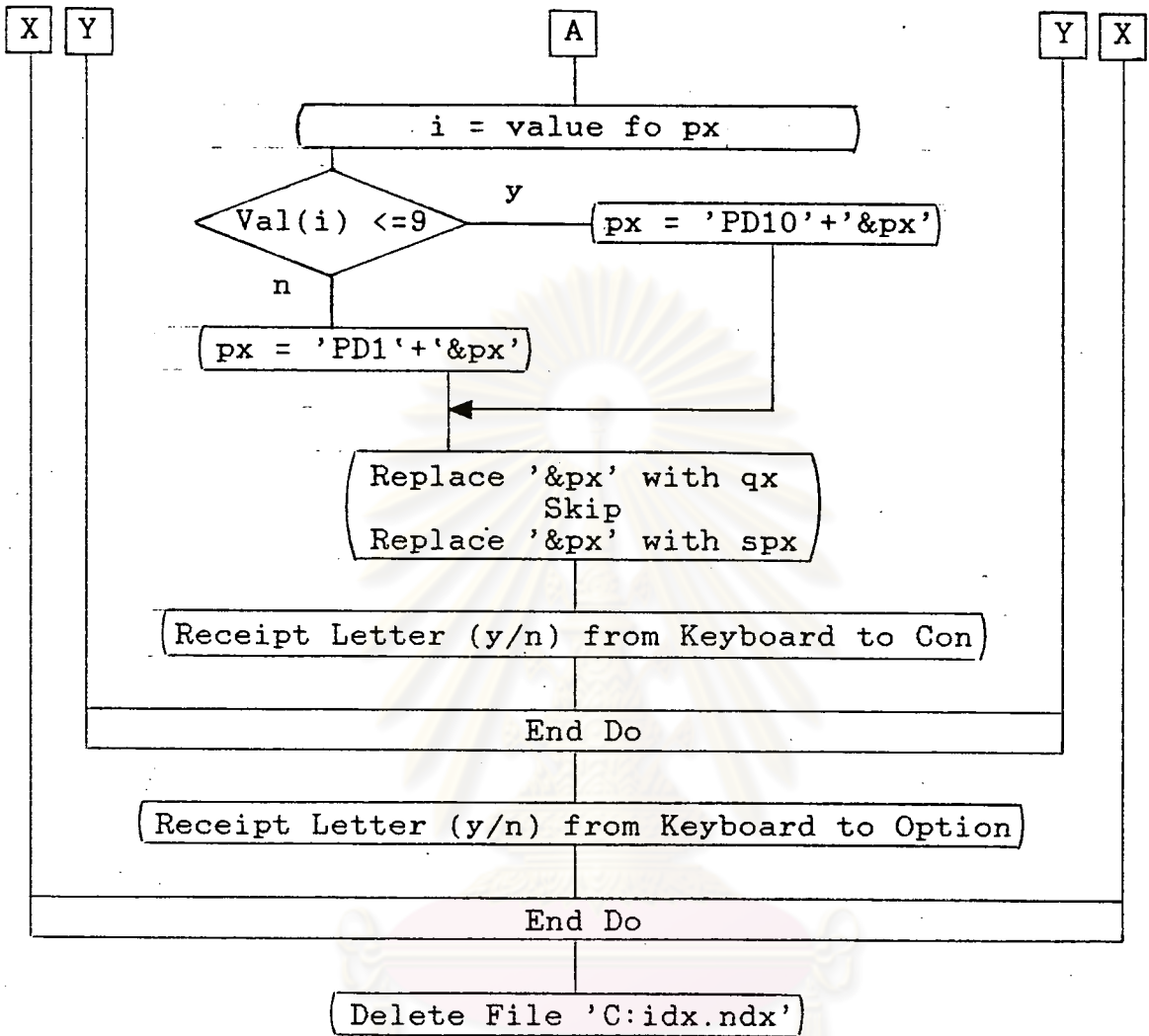


Program Step2



Program Initial

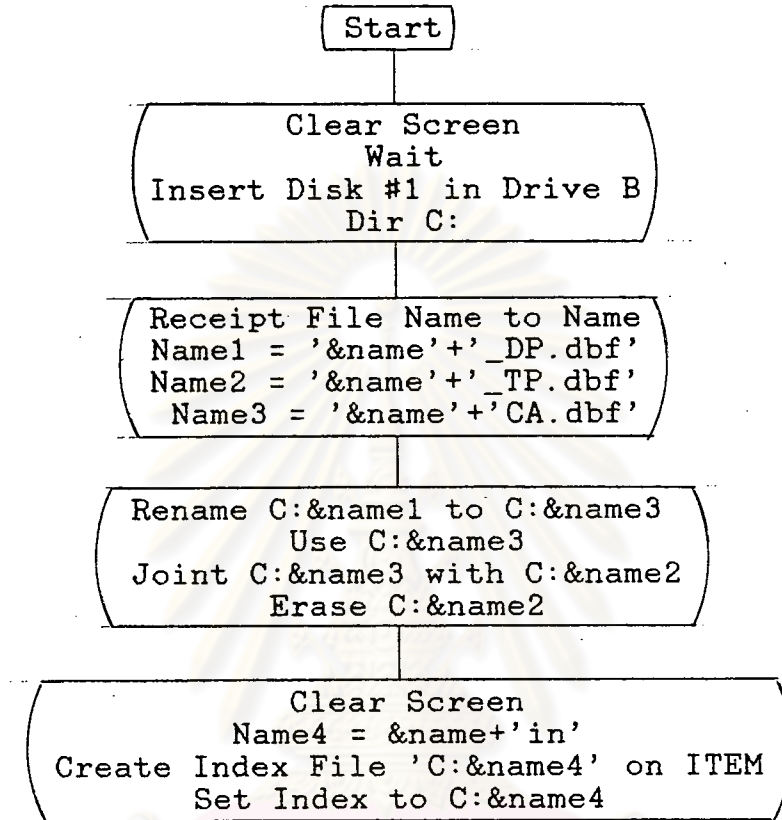




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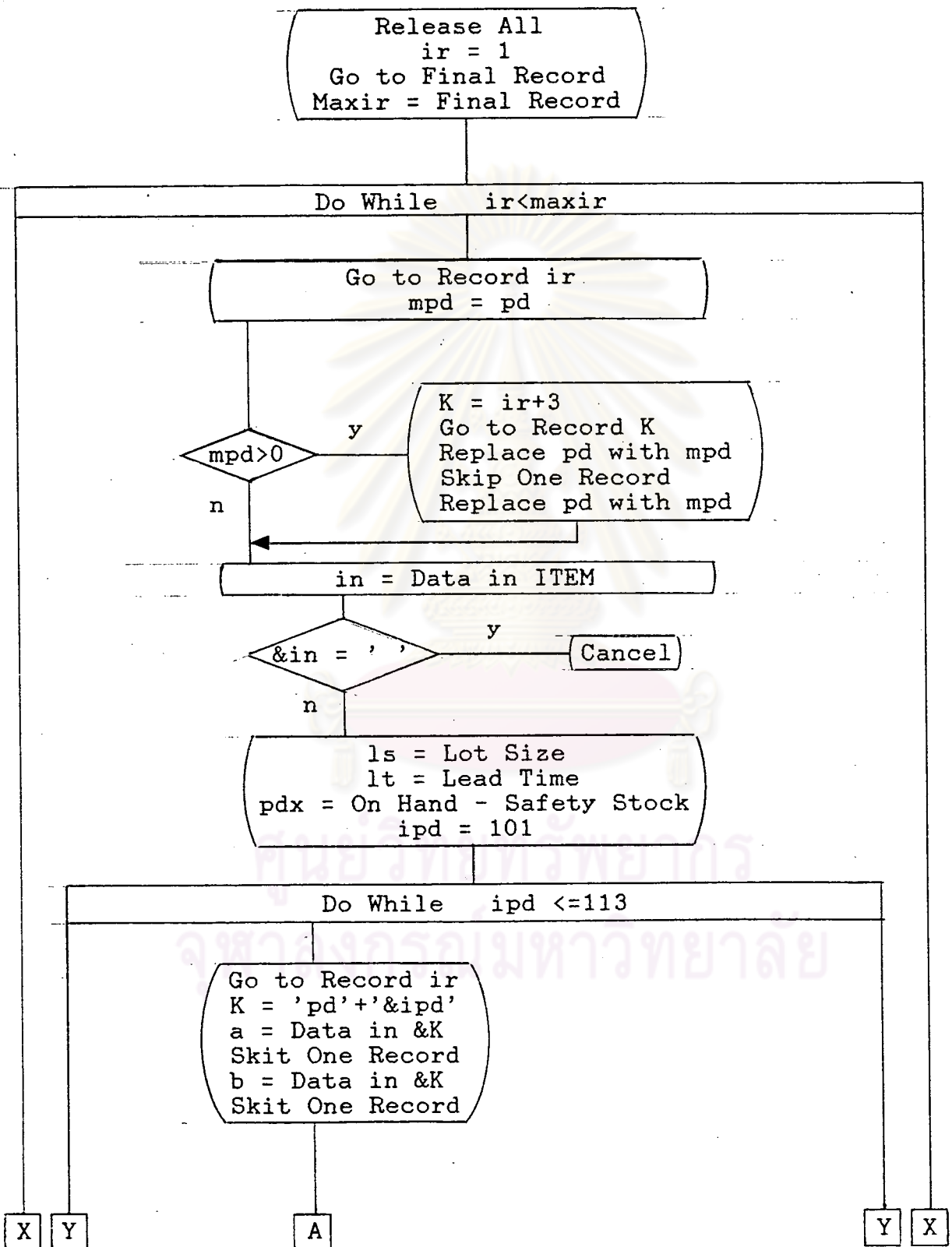


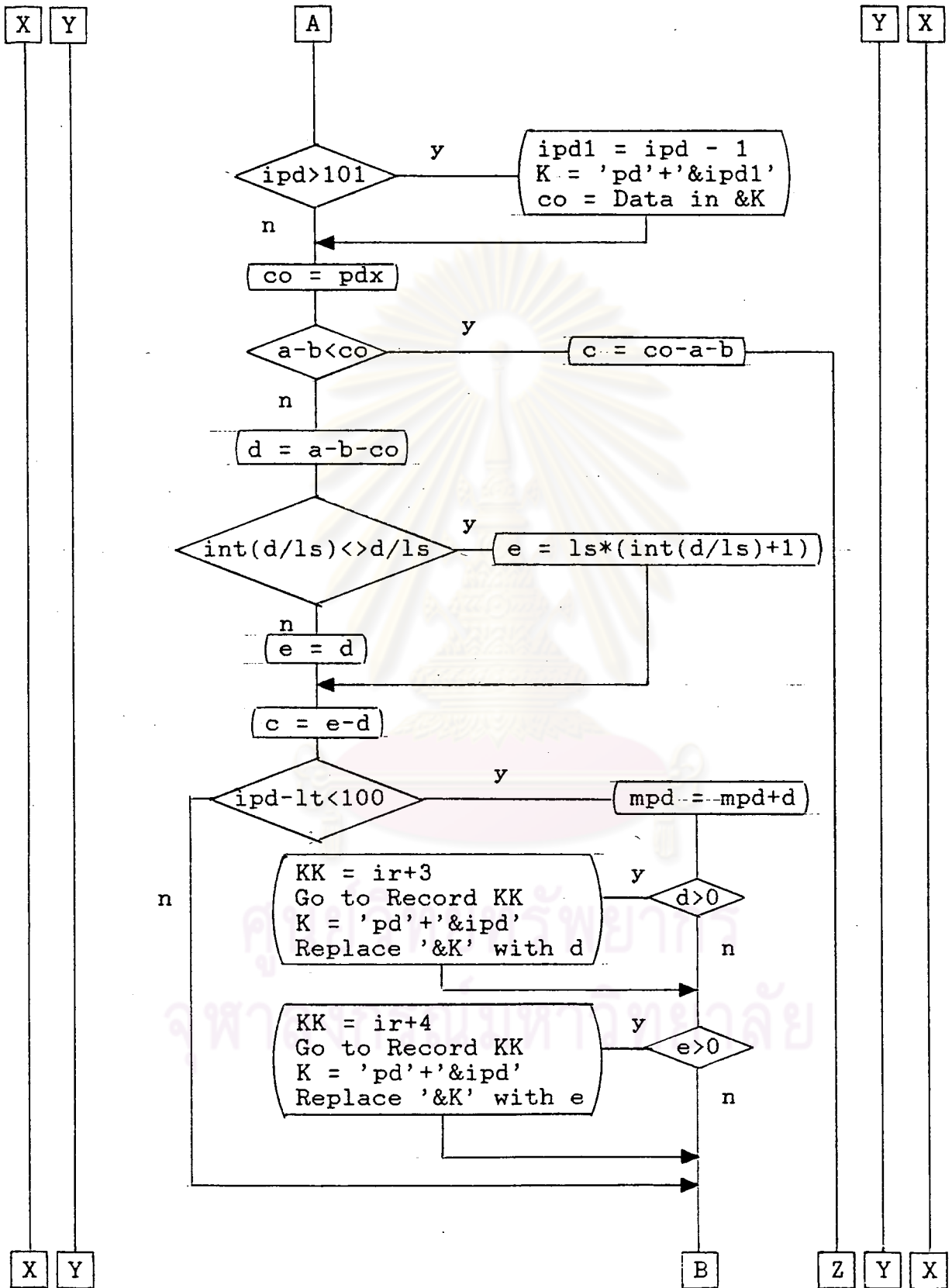
Program Step3

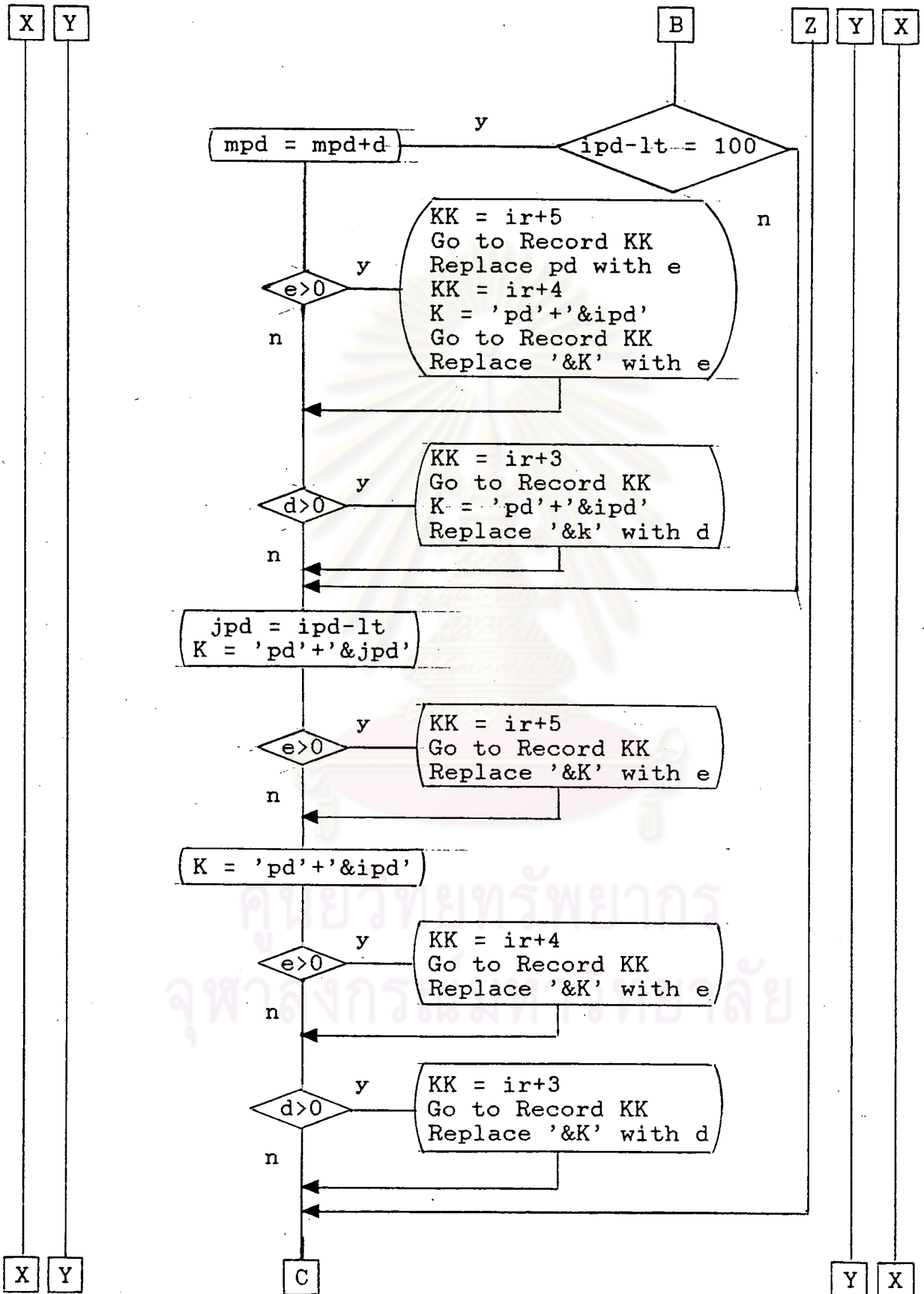


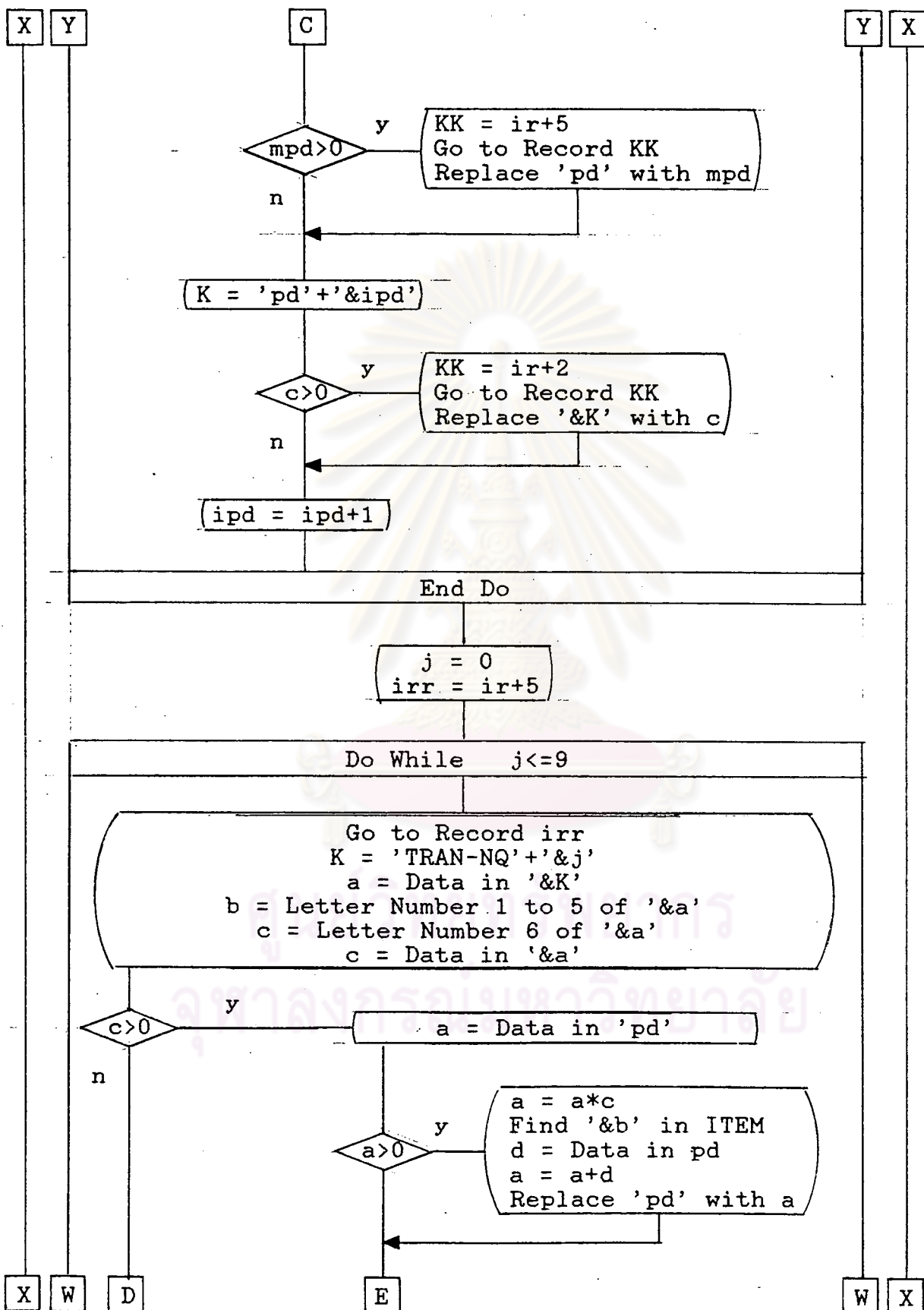
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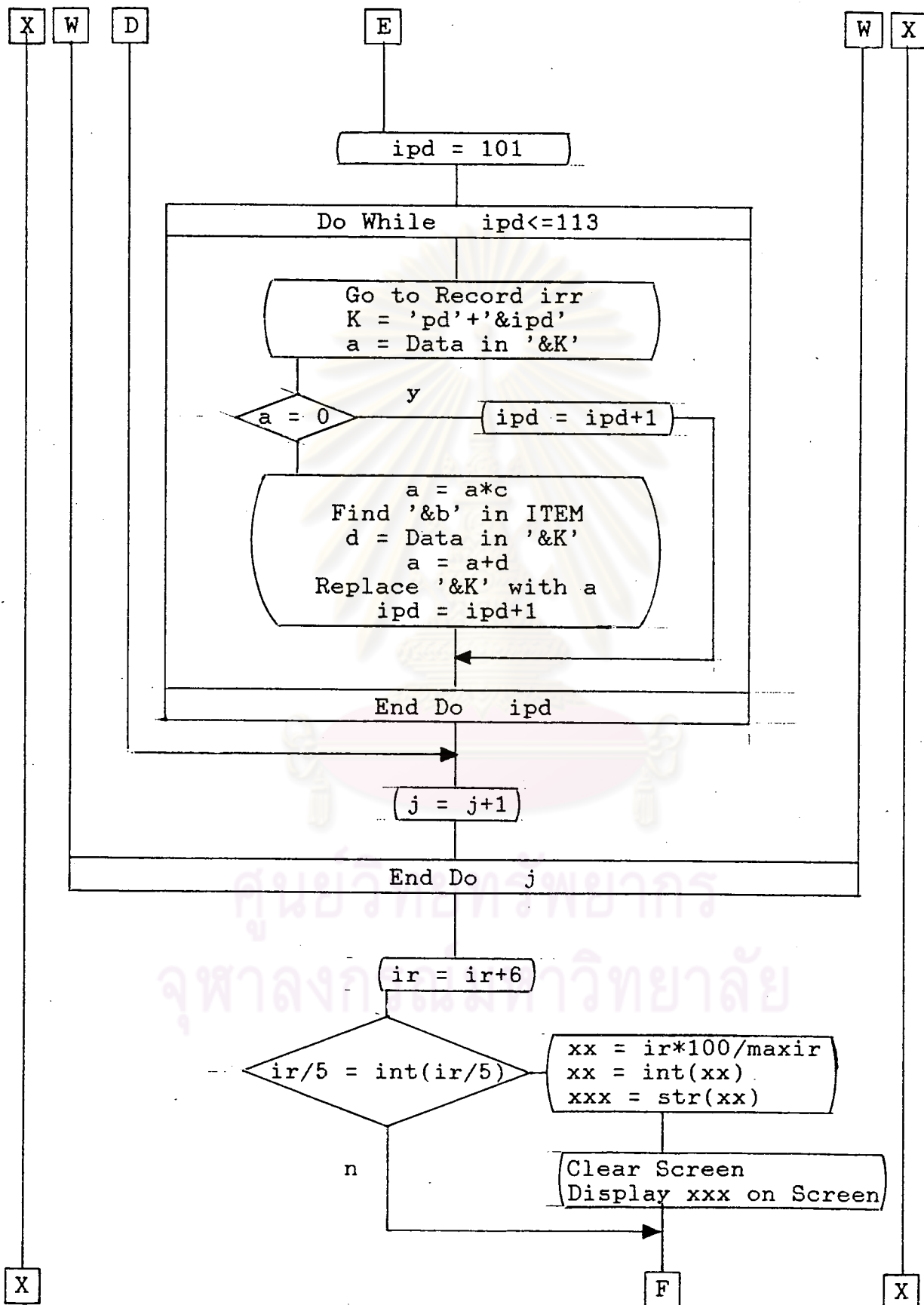
Program Calreq

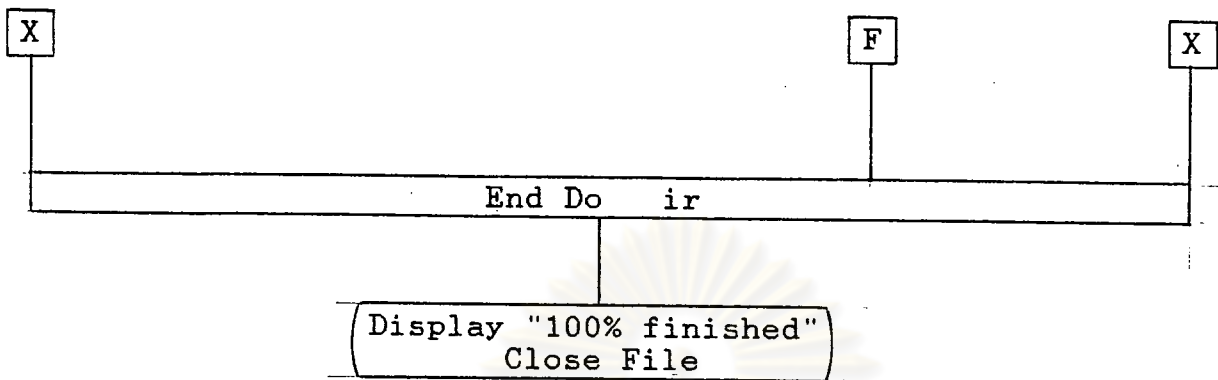






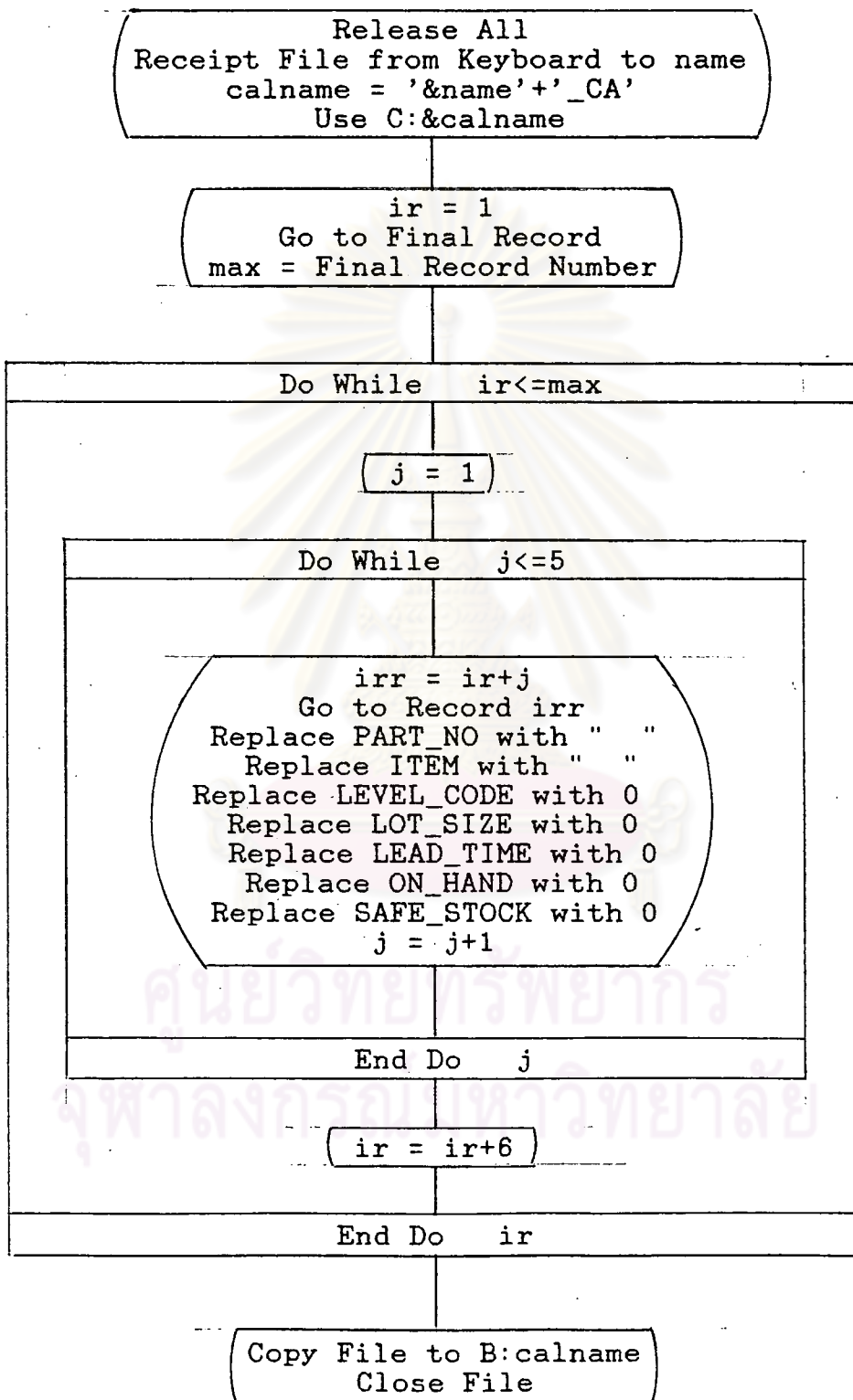






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Program Reform





PROGRAM MENU.PRG

```
set talk off
SX = 0
DO WHILE SX <> 9
  CLEAR
  CLEAR ALL

  @ 8,10 say ' MAIN MENU '
  @ 10,15 SAY ' 1 FOR CREATE DATA FILES *_PD OR *_PT '
  @ 12,15 SAY ' 2 FOR JOINT PERIOD FILE TO DATA FILE '
  @ 13,15 SAY ' AND GET INITIAL VALUE TO *_DR '
  @ 15,15 SAY ' 3 FOR CALCULATION *_CA '
  @ 17,15 SAY ' 4 FOR REFORM REPORT '
  @ 19,15 SAY ' 5 FOR PRINT REPORT '
  @ 21,15 SAY ' 9 EXIT '

  INPUT 'SELECT NUMBER :' TO SX

  DO CASE
    CASE SX=1
      DO STEP1
    CASE SX=2
      DO STEP2
      DO INITIAL
    CASE SX=3
      DO STEP3
      DO CALREQ
    CASE SX=4
      DO REFORM
    CASE SX=5
      CLEAR
      @ 10,10 SAY ' '
      ACCEPT ' DATABASE FILE'S NAME *_CA ; ' TO NAME
      NAME= '&NAME'+ '_CA'
      USE B:&NAME
      REPORT FORM MRP_REP TO PRINT
  ENDCASE
ENDDO
CANCEL
```

PROGRAM STEP1.PRG

```

con = 'Y'
do while upper(con) = 'Y'
  CLEAR
  typ = 'TT'
  yfile = 'tempover'
  @ 5,10 say 'this program use for create data file.'
  @ 7,10 say 'please select to create product file (PD)
             or part file (PT)'
  do while upper(typ) <> 'PD' .and. upper(typ) <> 'PT'
    @ 9,52 say '
    @ 8,10 say '
    accept " which data file you want to create ? "
           to typ
  enddo
  do while len(yfile) > 5 .or. len(yfile)=0
    @ 12,55 say '
    @ 11,8 say "give your data file name "
    ACCEPT " you have only 5 letter for your data
           file name " TO yfile
  enddo
  store '&yfile'+ '_' + '&typ' to name
  @ 15,10 say ' your data file name is '+name
  @ 18,10 SAY ' INSERT DISK #1 in DRIVE B: '
  wait
  @ 19,0 say '
  @ 18,10 say ' wait a minite !!
  USE STD_STRU
  COPY TO B:&NAME
  USE B:&NAME
  APPEND
  use
  accept " create anyother file (PD) or (PT) ; Y/N "
         to con
enddo

```

PROGRAM STEP2.PRG

```

CLEAR
@ 4,10 say 'Now add period file to *_PT & *_PD files '
@ 20,10 say ' INSERT inventory record file in DRIVE B:
wait
@ 20,0 say '
@ 21,0 say '
@ 5,10 SAY ' '
DIR B:
sure = 'N'
do while upper(sure) = 'N'
  @ 16,3 say '
  @ 15,33 SAY '
  @ 14,10 say ' '
  accept " What is your data file name (*.pd & *.pt) ! "
    to name
  accept " Are you sure Y/N " to sure
  if upper(sure) <> 'Y'
    sure = 'N'
  endif
enddo
store '&name'+'_PD.dbf' to dina1
store '&name'+'_PT.dbf' to dina2
copy file b:&dina1 to c:&dina1
copy file b:&dina2 to c:&dina2
CLEAR
@ 8,10 say 'First I add period file to &dina1 file'
store '&name'+'_DP' to dina11
@ 10,10 say 'your step2 data file is &dina11'
select 3
use period
select 2
use c:&dina1
@ 13,10 say '
wait
@ 13,10 say '
@ 14,0 say '
join WITH period to c:&dina11 for ITEM <> period->DESCRIP
use
erase c:&dina1
@ 16,10 say 'I finish my first job OK ! '
@ 17,10 SAY '
wait

CLEAR
@ 8,10 say 'Second I add period file to &dina2 file'

```

```
store '&name'+'_TP' to dina22
@ 10,10 say ' your step2 data file is &dina22'
select 3
use period
select 2
use c:&dina2
@ 13,10 say '
wait
@ 13,10 say '
@ 14,0 say '
Join WITH period to c:&dina22 for ITEM <> period->DESCRIP
use
erase c:&dina2
@ 16,10 say 'I finish my second job OK ! '
wait

CLEAR
@ 10,10 say 'create index file for *_DP & *_TP '
use c:&dina11
index on item to c:idxdp
use c:&dina22
index on item to c:idxtp
save to c:linkmemo
```



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PROGRAM INITIAL.PRG

```

restore from c:linkmemo
sedtl = 'DP'
do while sedtl <> 'N'
  error = 'Y'
  clear
  @ 10,10 say ' type DP for initial *_DP '
  @ 11,10 say ' type TP for initial *_TP '
  @ 12,10 say ' type N for exist from initial program'
  do while error = 'Y'
    @ 13,43 say '
    @ 12,2 say '
    accept " Which file do you want to initial
           to sedtl
    @ 14,35 say '
    sedtl = upper(sedtl)
    if sedtl = 'DP'
      error = 'N'
    endif
    if sedtl = 'TP'
      error = 'N'
    endif
    if sedtl = 'N'
      error = 'N'
    endif
    if error = 'Y'
      @ 14,35 say ' error in select ; try again '
    endif
  enddo
if sedtl <> 'N'
  if sedtl = 'DP'
    use c:&dina11
    set index to c:idxdp
  endif
  if sedtl = 'TP'
    use c:&dina22
    set index to c:idxtp
  endif

store 'Y' to option
do while upper(option) = 'Y'
  CLEAR
  find a9a9
  do while eof()=.T.
    @ 10,45 say '

```

```

        accept "    which item do you want to fill
                to nx
        nx = upper(nx)
        find &nx
        if eof() =.T.
            @ 11,10 say '          NO FIND ! retry again '
        endif
    enddo eof
con = 'Y'
do while upper(con)='Y'
    sure = 'N'
    do while upper(sure)<>'Y'
        @ 15,3 say '          ,
        @ 14,3 say '          ,
        @ 13,3 say '          ,
        @ 12,45 say '         ,
        @ 11,25 say '         ,
        accept "    which period (Num) ; to fill for &nx "
                to px
        input "    how many Gross Requirements  of &nx "
                to qx
        input "    how many Scheduled Receipts  of &nx "
                to spx
        accept "    Are you sure !! Y/N      " to sure ,
        @ 15,3 say
    enddo sure
    i = '&px'
    if val(i) <= 9
        px = 'PD10'+ '&px'
    else
        px = 'PD1'+ '&px'
    endif
    find &nx
    replace &px with qx
    skip
    replace &px with spx
    accept "    More data in this ITEM Y/N  " to con ,
    @ 16,0 say '
enddo con
@ 15,3 say ' '
accept "    More data Y/N !  " to option
enddo option
endif
enddo
use
erase c:idxdp.ndx
erase c:idxtp.ndx

```




PROGRAM STEP3.PRG

```
CLEAR
@ 4,10 say ' I link your *_DP & *_TP flie '
@ 6,10 say ' INSERT inventory record file in DRIVE B:
          read ! '

wait
@ 5,10 say '          '
dir c:
accept "what is your step2 data file name ( *_dp or *_tp) "
      to name
store '&name'+'_dp.dbf' to name1
store '&name'+'_tp.dbf' to name2
store '&name'+'_ca.dbf' to name3
rename c:&name1 to c:&name3
use c:&name3
append from c:&name2
erase c:&name2
clear
@ 10,10 say '          create index file for calculation
@ 12,10 say '          Wait a minite '
store '&name'+'_in' to name4
index on ITEM to c:&name4
set index to c:&name4
```

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PROGRAM CALREQ.PRG

```

CLEAR
@ 10,10 say ' now 0 % finished '

release all
store 1 to ir
goto bottom
store RECNO() to maxir
do while ir < maxir
  goto ir
  store pd to mpd
  if mpd > 0
    k = ir+3
    goto k
    replace PD with mpd
    skip
    replace PD with mpd
  endif
  store item to in
  if "&in" = " "
    cancel
  else
    store lot_size to ls
    store lead_time to lt
    store on_hand - safe_stock to pdx
    store 101 to ipd
  endif

do while ipd <= 113
  goto ir
  store "pd"+str(ipd,3) to k
  store &k to a
  skip
  store &k to b
  skip
  if ipd > 101
    store ipd-1 to ipd1
    store "pd"+str(ipd1,3) to k
    store &k to co
  else
    co = pdx
  endif

  if a-b <= co
    store co-a+b to c

```

```

store a-b-co to d
  if int(d/ls) <> d/ls
    store ls*(int(d/ls)+1) to e
  else
    store d to e
  endif
store e-d to c

if ipd-lt < 100
  store mpd+d to mpd
  if d>0
    kk = ir+3
    goto kk
    store "PD"+str(ipd,3) to k
    replace &k with d
  endif
  if e>0
    kk = ir+4
    goto kk
    store "PD"+str(ipd,3) to k
    replace &k with e
  endif
else
  if ipd-lt = 100
    store mpd+d to mpd
    if e>0
      store ir+5 to kk
      goto kk
      replace pd with e
      kk = ir+4
      store "PD"+str(ipd,3) to k
      goto kk
      replace &k with e
    endif
    if d>0
      kk = ir+3
      goto kk
      store "pd"+str(ipd,3) to k
      replace &k with d
    endif
  else
    store ipd-lt to jpd
    store "pd"+str(jpd,3) to k
    if e >0
      store ir+5 to kk
      goto kk
      replace &k with e
    endif
    store "pd"+str(ipd,3) to k
  
```

```

        store ir+4 to kk
        goto kk
        replace &k with e
    endif
    if d > 0
        store ir+3 to kk
        goto kk
        replace &k with d
    endif
endif
endif
endif
if mpd > 0
    kk= ir+5
    goto kk
    replace PD with mpd
endif
store "pd"+str(ipd,3) to k
if c > 0
    store ir+2 to kk
    goto kk
    replace &k with c
endif
store ipd+1 to ipd
enddo

store 0 to j
store ir+5 to irr
do while j <= 9
    goto irr
    store "TRAN_NQ"+str(j,1) to k
    a = &k
    store SUBSTR("&a",1,5) to b
    store SUBSTR("&a",6,1) to c
    store val("&c") to c
    if c > 0
        store pd to a
        if a>0
            store a*c to a
            find "&b"
            store pd to d
            a = a+d
            replace pd with a
        endif
        store 101 to ipd
        do while ipd <= 113
            goto irr
            store "pd"+str(ipd,3) to k
            store &k to a
        
```

```

        store ipd+1 to ipd
    else
        store a*c to a
        find "&b"
        store &k to d
        store a+d to a
        replace &k with a
        store ipd+1 to ipd
    endif
enddo ipd
endif
store j+1 to j
enddo j
store ir+6 to ir
if ir/5 = int(ir/5 )
    store ir*100/maxir to xx
    store int(xx) to xx
    store str(xx,3) to xxx

    CLEAR
    @ 10,10 say 'now'+xxx+ ' % finished '
endif
enddo ir
@ 10,10 say ' now 100 % finish '
use
clear all

```

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PROGRAM REFORM.PRG

```
CLEAR
release all
@ 10,10 say '      '
accept "      give your calculation file name " to name
store '&name'+'_ca' to calname
use c:&calname

store 1 to ir
goto bottom
store RECNO() to max
do while ir<= max
  store 1 to j
  do while j <=5
    store ir+j to irr
    goto irr
    replace PART_NO with "  ",ITEM with "  "
    replace LEVEL_CODE with 0,LOT_SIZE with 0,
      LEAD_TIME with 0
    replace ON_HAND with 0, SAFE_STOCK with 0
    store j+1 to j
  enddo
  store ir+6 to ir
enddo ir
copy to b:&calname
use *
```

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ภาคผนวก ข

ตัวอย่างการคำนวณการวางแผนความต้องการวัสดุดิบ
ของท่อไอเสียสำเร็จรูปรุ่น AG720TU-5 ส่วนหน้า
ตามบันทึกสินค้าคงเหลือแบบที่ 4



คุรุณวิทย์วิทยธรพยากร
จุฬาลงกรณ์มหาวิทยาลัย

PART_NO	ITEM	LC	LS	LT	OH	SS	DESCRIPTION	PD	PD1	PD2	PD3	PD4	PD5	PD6	PD7	PD8	PD9	PD10	PD11	PD12	PD13
20010-09W01	AA001	0	1	1	0	150	GROSS REQUIREMENTS	0	360	300	300	400	300	200	300	320	300	270	300	300	300
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	NET REQUIREMENTS	0	510	300	300	400	300	200	300	320	300	270	300	300	300
		0	0	0	0	0	PLANNED ORDER RECEIPTS	0	510	300	300	400	300	200	300	320	300	270	300	300	300
		0	0	0	0	0	PLANNED ORDER RELEASES	510	300	300	400	300	200	300	320	300	270	300	300	300	0
20100-09W02	AB001	0	1	1	0	150	GROSS REQUIREMENTS	0	360	300	300	400	300	200	300	320	300	270	300	300	300
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	NET REQUIREMENTS	0	510	300	300	400	300	200	300	320	300	270	300	300	300
		0	0	0	0	0	PLANNED ORDER RECEIPTS	0	510	300	300	400	300	200	300	320	300	270	300	300	300
		0	0	0	0	0	PLANNED ORDER RELEASES	510	300	300	400	300	200	300	320	300	270	300	300	300	0
20010-06M00	BA001	0	1	1	0	30	GROSS REQUIREMENTS	0	40	0	0	40	80	0	0	40	0	40	0	0	40
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	NET REQUIREMENTS	0	70	0	0	40	80	0	0	40	0	40	0	0	40
		0	0	0	0	0	PLANNED ORDER RECEIPTS	0	70	0	0	40	80	0	0	40	0	40	0	0	40
		0	0	0	0	0	PLANNED ORDER RELEASES	70	0	0	40	80	0	0	40	0	40	0	0	40	0
20100-02A02	BB001	0	1	1	0	30	GROSS REQUIREMENTS	0	40	0	0	40	80	0	0	40	0	40	0	0	40
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	NET REQUIREMENTS	0	70	0	0	40	80	0	0	40	0	40	0	0	40
		0	0	0	0	0	PLANNED ORDER RECEIPTS	0	70	0	0	40	80	0	0	40	0	40	0	0	40
		0	0	0	0	0	PLANNED ORDER RELEASES	70	0	0	40	80	0	0	40	0	40	0	0	40	0
20010-11E10	CA001	0	1	1	0	15	GROSS REQUIREMENTS	0	0	0	0	0	0	0	0	0	0	0	0	0	40
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	NET REQUIREMENTS	0	15	0	0	0	0	0	0	0	0	0	0	0	40
		0	0	0	0	0	PLANNED ORDER RECEIPTS	0	15	0	0	0	0	0	0	0	0	0	0	0	40
		0	0	0	0	0	PLANNED ORDER RELEASES	15	0	0	0	0	0	0	0	0	0	0	0	40	0

PART_NO	ITEM	LC	LS	LT	DH	SS	DESCRIPTION	PD	PD1	PD2	PD3	PD4	PD5	PD6	PD7	PD8	PD9	PD10	PD11	PD12	PD13	
20015-11E10	CB001	0	1	1	0	15	GROSS REQUIREMENTS	0	0	0	0	0	0	0	0	0	0	0	0	0	40	
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	NET REQUIREMENTS	0	15	0	0	0	0	0	0	0	0	0	0	0	0	40
		0	0	0	0	0	PLANNED ORDER RECEIPTS	0	15	0	0	0	0	0	0	0	0	0	0	0	0	40
		0	0	0	0	0	PLANNED ORDER RELEASES	15	0	0	0	0	0	0	0	0	0	0	0	0	40	0
20100-11E10	CC001	0	1	1	0	15	GROSS REQUIREMENTS	0	0	0	0	0	0	0	0	0	0	0	0	0	40	
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	NET REQUIREMENTS	0	15	0	0	0	0	0	0	0	0	0	0	0	0	40
		0	0	0	0	0	PLANNED ORDER RECEIPTS	0	15	0	0	0	0	0	0	0	0	0	0	0	0	40
		0	0	0	0	0	PLANNED ORDER RELEASES	15	0	0	0	0	0	0	0	0	0	0	0	0	40	0
SUB-ASSY	AA101	1	1	0	0	0	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	NET REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
		0	0	0	0	0	PLANNED ORDER RELEASES	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
SUB-ASSY	AA102	1	1	0	0	0	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	NET REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
		0	0	0	0	0	PLANNED ORDER RELEASES	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
SUB-ASSY	AA103	1	1	0	0	0	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	NET REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	
		0	0	0	0	0	PLANNED ORDER RELEASES	510	300	300	400	300	200	300	320	300	270	300	300	300	0	

PART_NO	ITEM	LC	LS	LT	OH	SS	DESCRIPTION	PD	PD1	PD2	PD3	PD4	PD5	PD6	PD7	PD8	PD9	PD10	PD11	PD12	PD13			
10020-1005B	CC106	1	1	4	45	15	GROSS REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	40	0			
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	PROJECTED ON HAND	0	30	30	30	30	30	30	30	30	30	30	30	30	0	0	0	
		0	0	0	0	0	NET REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	
		0	0	0	0	0	PLANNED ORDER RECEIPTS	15	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0
		0	0	0	0	0	PLANNED ORDER RELEASES	15	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
	CC107	1	250	1	250	60	GROSS REQUIREMENTS	60	0	0	0	0	0	0	0	0	0	0	0	0	160	0	0	
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	190	190	190	190	190	190	190	190	190	190	190	190	190	30	30	
		0	0	0	0	0	NET REQUIREMENTS	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PLANNED ORDER RECEIPTS	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PLANNED ORDER RELEASES	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUB-ASSY	CC108	1	1	0	0	0	GROSS REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	0	40	0		
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	NET REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	0	40	0		
		0	0	0	0	0	PLANNED ORDER RECEIPTS	15	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	
		0	0	0	0	0	PLANNED ORDER RELEASES	15	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	
10000-03069	AA201	2	1	4	240	150	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	0		
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	NET REQUIREMENTS	510	210	300	400	300	200	300	320	300	270	300	300	300	0	0		
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	210	300	400	300	200	300	320	300	270	300	300	300	0	0		
		0	0	0	0	0	PLANNED ORDER RELEASES	1720	200	300	320	300	270	300	300	300	0	0	0	0	0			
10010-03094	AA202	2	1	2	300	150	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0	0		
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	NET REQUIREMENTS	510	150	300	400	300	200	300	320	300	270	300	300	300	0	0		
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	150	300	400	300	200	300	320	300	270	300	300	300	0	0		
		0	0	0	0	0	PLANNED ORDER RELEASES	960	400	300	200	300	320	300	270	300	300	300	0	0				

PART_NO	ITEM	LC	LS	LT	OH	SS	DESCRIPTION	PD	PD1	PD2	PD3	PD4	PD5	PD6	PD7	PD8	PD9	PD10	PD11	PD12	PD13
10010-02302	AA203	2	21	1	569	40	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	229	13	12	6	16	10	5	20	2	17	11	5	5
		0	0	0	0	0	NET REQUIREMENTS	510	0	71	387	288	194	284	310	295	250	298	283	289	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	0	84	399	294	210	294	315	315	252	315	294	294	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	84	399	294	210	294	315	315	252	315	294	294	0	0
10010-02303	AA204	2	16	1	521	40	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	181	9	9	13	5	9	9	13	15	3	7	11	11
		0	0	0	0	0	NET REQUIREMENTS	510	0	119	391	291	187	295	311	291	257	285	297	293	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	0	128	400	304	192	304	320	304	272	288	304	304	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	128	400	304	192	304	320	304	272	288	304	304	0	0
10000-03070	AA205	2	1	4	461	150	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	11	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	NET REQUIREMENTS	510	0	289	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	0	289	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	PLANNED ORDER RELEASES	1499	200	300	320	300	270	300	300	300	0	0	0	0	0
10020-1002B	AA206	2	1	4	22	150	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	NET REQUIREMENTS	510	428	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	428	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	PLANNED ORDER RELEASES	1938	200	300	320	300	270	300	300	300	0	0	0	0	0
10010-02304	AA207	2	13	1	1072	80	GROSS REQUIREMENTS	1020	600	600	800	600	400	600	640	600	540	600	600	600	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	392	0	6	4	7	5	2	0	6	4	2	0	0
		0	0	0	0	0	NET REQUIREMENTS	1020	0	208	800	594	396	593	635	598	540	594	596	598	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	1020	0	208	806	598	403	598	637	598	546	598	598	598	0
		0	0	0	0	0	PLANNED ORDER RELEASES	1020	208	806	598	403	598	637	598	546	598	598	598	0	0

PART_NO	ITEM	LC	LS	LT	OH	SS	DESCRIPTION	PD	PD1	PD2	PD3	PD4	PD5	PD6	PD7	PDB	PD9	PD10	PD11	PD12	PD13
SUB-ASSY	AA208	2	1	0	0	0	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	NET REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	300	300	400	300	200	300	320	300	270	300	300	300	0
10010-02309	AB201	2	11	1	516	40	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	176	8	4	1	10	7	6	3	8	5	2	10	10
		0	0	0	0	0	NET REQUIREMENTS	510	0	124	392	296	199	290	313	294	267	292	295	298	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	0	132	396	297	209	297	319	297	275	297	297	308	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	132	396	297	209	297	319	297	275	297	297	308	0	0
10010-02310	AB202	2	11	1	522	40	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	182	3	10	7	5	2	1	9	3	0	8	5	5
		0	0	0	0	0	NET REQUIREMENTS	510	0	118	397	290	193	295	318	299	261	297	300	292	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	0	121	407	297	198	297	319	308	264	297	308	297	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	121	407	297	198	297	319	308	264	297	308	297	0	0
SUB-ASSY	AB203	2	1	0	0	0	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	NET REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	300	300	400	300	200	300	320	300	270	300	300	300	0
10000-03124	BA201	2	1	4	221	30	GROSS REQUIREMENTS	70	0	0	40	80	0	0	40	0	40	0	0	40	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	191	191	151	71	71	71	31	31	0	0	0	0	0
		0	0	0	0	0	NET REQUIREMENTS	70	0	0	0	0	0	0	0	0	9	0	0	40	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	70	0	0	0	0	0	0	0	0	9	0	0	40	0
		0	0	0	0	0	PLANNED ORDER RELEASES	70	0	0	0	0	9	0	0	40	0	0	0	0	

PART_NO	ITEM	LC	LS	LT	OH	SS	DESCRIPTION	PD	PD1	PD2	PD3	PD4	PD5	PD6	PD7	PD8	PD9	PD10	PD11	PD12	PD13				
10010-02433	CC204	2	12	1	141	4	GROSS REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	40	0				
							SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
							PROJECTED ON HAND	0	137	137	137	137	137	137	137	137	137	137	137	137	137	137	97	97	
							NET REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
							PLANNED ORDER RECEIPTS	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
							PLANNED ORDER RELEASES	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10010-02434	CC205	2	12	1	145	4	GROSS REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	40	0				
							SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
							PROJECTED ON HAND	0	141	141	141	141	141	141	141	141	141	141	141	141	141	101	101		
							NET REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
							PLANNED ORDER RECEIPTS	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
							PLANNED ORDER RELEASES	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SUB-ASSY	CC206	2	1	0	0	0	GROSS REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	40	0				
							SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
							PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
							NET REQUIREMENTS	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	
							PLANNED ORDER RECEIPTS	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0
							PLANNED ORDER RELEASES	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0
SUB-ASSY	AA301	3	1	0	0	0	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0				
							SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
							PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
							NET REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	300	0			
							PLANNED ORDER RECEIPTS	510	300	300	400	300	200	300	320	300	270	300	300	300	300	0			
							PLANNED ORDER RELEASES	510	300	300	400	300	200	300	320	300	270	300	300	300	300	0			
SUB-ASSY	AA302	3	1	0	0	0	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0				
							SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
							PROJECTED ON HAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
							NET REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	300	0			
							PLANNED ORDER RECEIPTS	510	300	300	400	300	200	300	320	300	270	300	300	300	300	0			
							PLANNED ORDER RELEASES	510	300	300	400	300	200	300	320	300	270	300	300	300	300	0			

PART_NO	ITEM	LC	LS	LT	OH	SS	DESCRIPTION	PD	PD1	PD2	PD3	PD4	PD5	PD6	PD7	PD8	PD9	PD10	PD11	PD12	PD13
10010-02308	AA401	4	27	1	527	40	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	187	22	0	24	13	10	14	11	11	8	5	2	2
		0	0	0	0	0	NET REQUIREMENTS	510	0	113	378	300	176	287	310	286	259	289	292	295	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	0	135	378	324	189	297	324	297	270	297	297	297	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	135	378	324	189	297	324	297	270	297	297	297	0	0
10010-02307	AA402	4	24	1	522	40	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	182	2	10	22	14	2	18	6	0	12	0	12	12
		0	0	0	0	0	NET REQUIREMENTS	510	0	118	398	290	178	286	318	282	264	300	288	300	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	0	120	408	312	192	288	336	288	264	312	288	312	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	120	408	312	192	288	336	288	264	312	288	312	0	0
10010-02306	AA403	4	9	1	570	40	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	230	2	7	4	2	8	3	0	0	6	3	0	0
		0	0	0	0	0	NET REQUIREMENTS	510	0	70	398	293	196	298	312	297	270	300	294	297	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	0	72	405	297	198	306	315	297	270	306	297	297	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	72	405	297	198	306	315	297	270	306	297	297	0	0
10010-02305	AA404	4	16	1	1044	80	GROSS REQUIREMENTS	1020	600	600	800	600	400	600	640	600	540	600	600	600	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	364	4	4	12	12	4	4	12	0	8	0	8	8
		0	0	0	0	0	NET REQUIREMENTS	1020	0	236	796	596	388	588	636	596	528	600	592	600	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	1020	0	240	800	608	400	592	640	608	528	608	592	608	0
		0	0	0	0	0	PLANNED ORDER RELEASES	1020	240	800	608	400	592	640	608	528	608	592	608	0	0
10010-02318	AB401	4	10	1	515	40	GROSS REQUIREMENTS	510	300	300	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	SCHEDULED RECEIPTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	PROJECTED ON HAND	0	175	5	5	5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	NET REQUIREMENTS	510	0	125	395	295	195	295	315	295	265	295	295	295	0
		0	0	0	0	0	PLANNED ORDER RECEIPTS	510	0	130	400	300	200	300	320	300	270	300	300	300	0
		0	0	0	0	0	PLANNED ORDER RELEASES	510	130	400	300	200	300	320	300	270	300	300	300	0	0

ประวัติผู้เขียน

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ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย