**begin**

 // learn the points of the pallet in the pallet frame

 setFrame(p0,px,py,fPallet)

 **for** nI=0 **to** 4 **step** 1

 **for** nJ=0 **to** 3 **step** 1

 pPallet[nI+nJ\*5]=compose(pPick,fPallet,{50\*nI,50\*nJ,0,0,0,0})

 **endFor**

 **endFor**

 // learn the points where to put the parts

 **for** nI=0 **to** 4 **step** 1

 **for** nJ=0 **to** 3 **step** 1

 pPut[nI+nJ\*5]=compose(pPut0,fPallet,{0,0,40\*nI+40\*5\*nJ,0,0,0})

 **endFor**

 **endFor**

 // move to the start position

 userPage(**false**)

 cls()

 put("Input the cycle number:")

 get(nCycle)

 nResult=get(nCycle)

 wait(nResult==270)

 movej(jStart,tTool,mNomSpeed)

 wait(diStart==**true**)

 **taskCreate** "listen",10,keyListener()

 **while** nCycle>0

 nCycle=nCycle-1

 **for** nI=0 **to** 11 **step** 1

 **call** pickNplace(nI)

 **endFor**

 **for** nI=11 **to** 0 **step** -1

 **call** pickNplaceBack(nI)

 **endFor**

 delay(0)

 **endWhile**

 movej(jStart,tTool,mNomSpeed)

 waitEndMove()

**end**