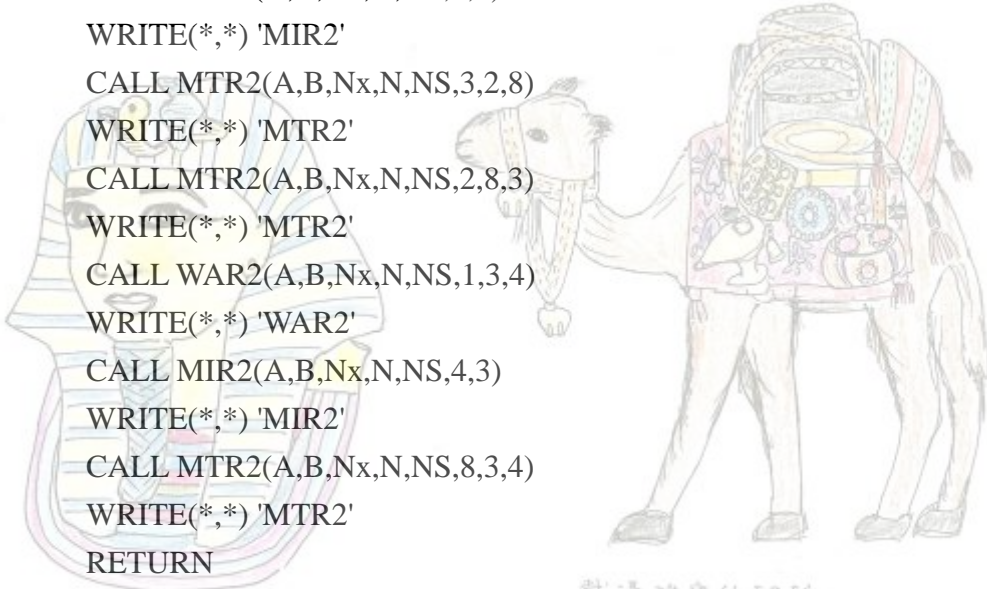


```

SUBROUTINE MIC2(A,B,Nx,N,NS)
REAL A(NX,NX),B(NX,NX)
CALL MIR2(A,B,Nx,N,NS,1,3)
WRITE(*,*) 'MIR2'
CALL MTR2(A,B,Nx,N,NS,3,2,8)
WRITE(*,*) 'MTR2'
CALL MTR2(A,B,Nx,N,NS,2,8,3)
WRITE(*,*) 'MTR2'
CALL WAR2(A,B,Nx,N,NS,1,3,4)
WRITE(*,*) 'WAR2'
CALL MIR2(A,B,Nx,N,NS,4,3)
WRITE(*,*) 'MIR2'
CALL MTR2(A,B,Nx,N,NS,8,3,4)
WRITE(*,*) 'MTR2'
RETURN
END

```



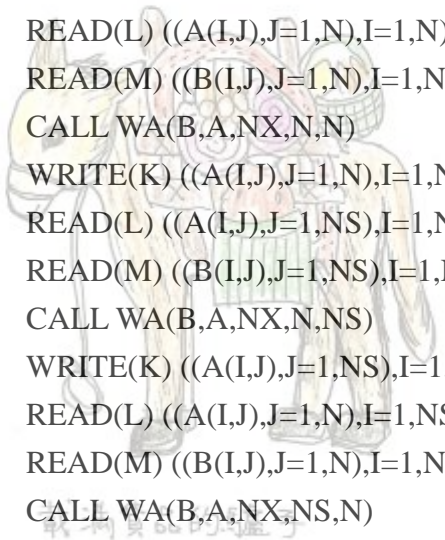
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C*****

```

SUBROUTINE WAR2(A,B,Nx,N,NS,L,M,K)
REAL A(NX,NX),B(NX,NX)及尼羅河之旅
REWIND L
REWIND M
REWIND K
READ(L) ((A(I,J),J=1,N),I=1,N)
READ(M) ((B(I,J),J=1,N),I=1,N)
CALL WA(B,A,NX,N,N)
WRITE(K) ((A(I,J),J=1,N),I=1,N)
READ(L) ((A(I,J),J=1,NS),I=1,N)
READ(M) ((B(I,J),J=1,NS),I=1,N)
CALL WA(B,A,NX,N,NS)
WRITE(K) ((A(I,J),J=1,NS),I=1,N)
READ(L) ((A(I,J),J=1,N),I=1,NS)
READ(M) ((B(I,J),J=1,N),I=1,NS)
CALL WA(B,A,NX,NS,N)
WRITE(K) ((A(I,J),J=1,N),I=1,NS)
READ(L) ((A(I,J),J=1,NS),I=1,NS)
READ(M) ((B(I,J),J=1,NS),I=1,NS)
CALL WA(B,A,NX,NS,NS)
WRITE(K) ((A(I,J),J=1,NS),I=1,NS)

```



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```
RETURN
END
```

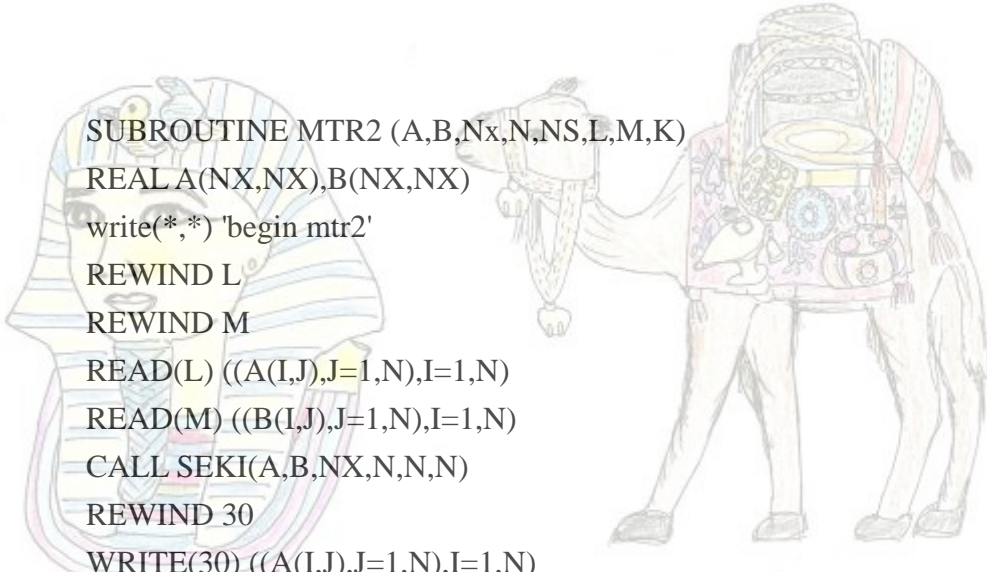
C

C

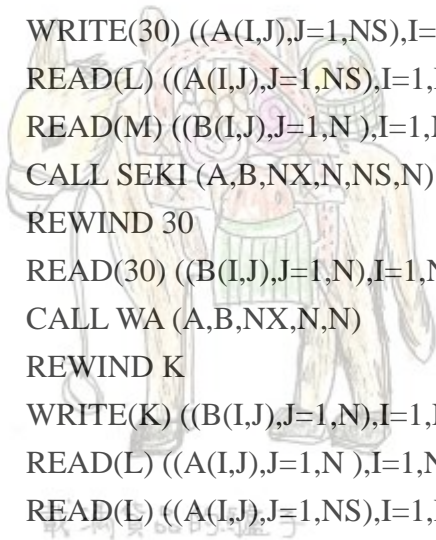
```
SUBROUTINE MTR2 (A,B,Nx,N,NS,L,M,K)
REAL A(NX,NX),B(NX,NX)
write(*,*) 'begin mtr2'
REWIND L
REWIND M
READ(L) ((A(I,J),J=1,N),I=1,N)
READ(M) ((B(I,J),J=1,N),I=1,N)
CALL SEKI(A,B,NX,N,N,N)
REWIND 30
WRITE(30) ((A(I,J),J=1,N),I=1,N)
DO 100 I=1,N
DO 100 J=1,N
```

100

```
B(I,J)=A(I,J)
BACKSPACE L 2011 埃及尼羅河之旅
READ(L) ((A(I,J),J=1,N),I=1,N)
READ(M) ((B(I,J),J=1,NS),I=1,N)
CALL SEKI (A,B,NX,N,N,NS)
WRITE(30) ((A(I,J),J=1,NS),I=1,N)
READ(L) ((A(I,J),J=1,NS),I=1,N)
READ(M) ((B(I,J),J=1,N),I=1,NS)
CALL SEKI (A,B,NX,N,NS,N)
REWIND 30
READ(30) ((B(I,J),J=1,N),I=1,N)
CALL WA (A,B,NX,N,N)
REWIND K
WRITE(K) ((B(I,J),J=1,N),I=1,N)
READ(L) ((A(I,J),J=1,N),I=1,NS)
READ(L) ((A(I,J),J=1,NS),I=1,NS)
REWIND L
READ(L) ((A(I,J),J=1,N),I=1,N)
READ(L) ((A(I,J),J=1,NS),I=1,N)
READ(M) ((B(I,J),J=1,NS),I=1,NS)
CALL SEKI (A,B,NX,N,NS,NS)
```



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```

READ(30) ((B(I,J),J=1,NS),I=1,N)
CALL WA (A,B,NX,N,NS)
WRITE(K) ((B(I,J),J=1,NS),I=1,N)
REWIND M

```

```

READ(M) ((B(I,J),J=1,N),I=1,N)
READ(L) ((A(I,J),J=1,N),I=1,NS)
CALL SEKI (A,B,NX,NS,N,N)
REWIND 30

```

```

WRITE(30) ((A(I,J),J=1,N),I=1,NS)
READ(L) ((B(I,J),J=1,NS),I=1,NS)
BACKSPACE L
BACKSPACE L

```

```

READ(L) ((A(I,J),J=1,N),I=1,NS)
READ(M) ((B(I,J),J=1,NS),I=1,N)
CALL SEKI (A,B,NX,NS,N,NS)
WRITE(30) ((A(I,J),J=1,NS),I=1,NS)

```

```

READ(L) ((A(I,J),J=1,NS),I=1,NS)
READ(M) ((B(I,J),J=1,N),I=1,NS)
CALL SEKI (A,B,NX,NS,NS,N)
REWIND 30

```

```

READ(30) ((B(I,J),J=1,N),I=1,NS)
CALL WA (A,B,NX,NS,N)
WRITE(K) ((B(I,J),J=1,N),I=1,NS)
BACKSPACE L

```

```

READ(L) ((A(I,J),J=1,NS),I=1,NS)
READ(M) ((B(I,J),J=1,NS),I=1,NS)
CALL SEKI (A,B,NX,NS,NS,NS)
READ(30) ((B(I,J),J=1,NS),I=1,NS)

```

```

CALL WA (B,A,NX,NS,NS)
WRITE(K) ((A(I,J),J=1,NS),I=1,NS)
write(*,*) 'end of mtr2'
RETURN

```

```

END

```

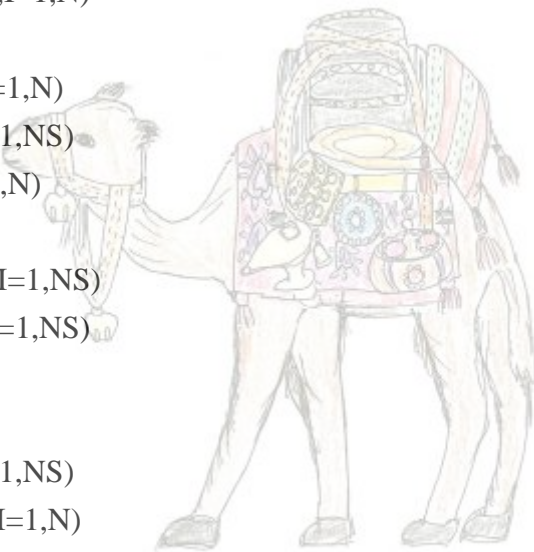
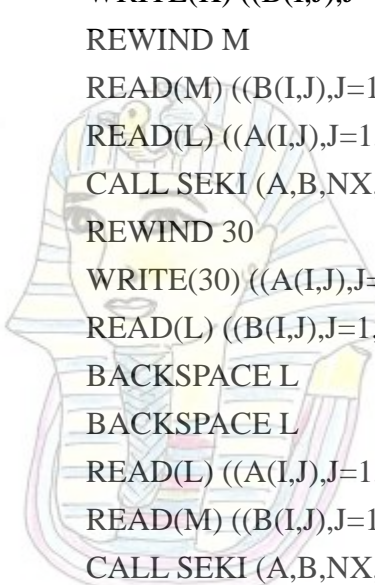
C

C*****

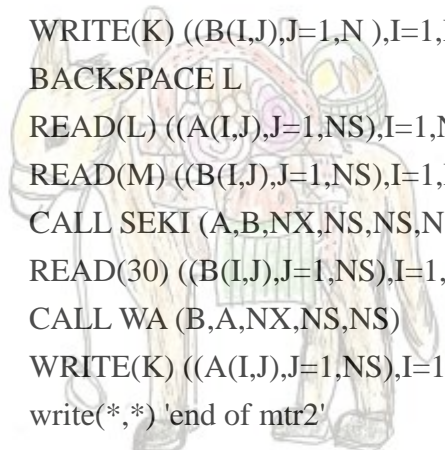
```

SUBROUTINE SEKI(A,B,M,NA,NK,NB)
REAL A(M,M),B(M,M),C(3000)
DO 100 I=1,NA

```



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```

DO 101 K=1,NK
C(K)=A(I,K)
101 CONTINUE
DO 100 J=1,NB
R=0.
DO 102 K=1,NK
R=R+C(K)*B(K,J)
102 CONTINUE
A(I,J)=R
100 CONTINUE
write(*,*) 'seki'
RETURN
END

```

```

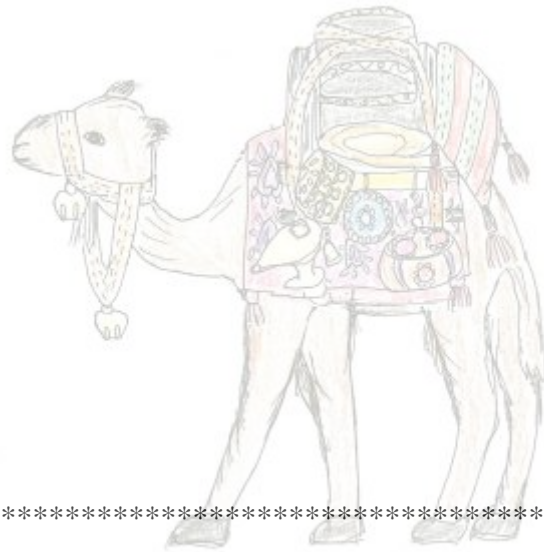
C*****
SUBROUTINE MINVS(A,KO,N,EPS,ILL)
C*****

```

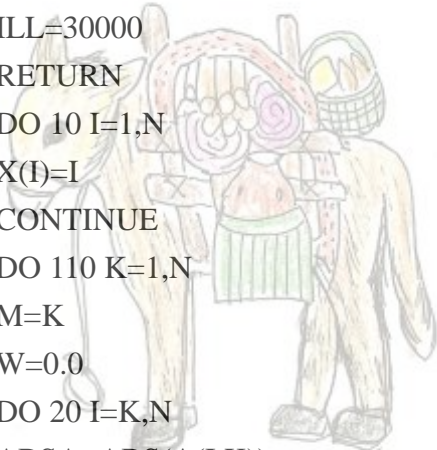
```

REAL A(KO,KO)
INTEGER X(3000)
LOGICAL B
ILL=0
IF((KO.GE.N).AND.(N.GE.2).AND.(N.LE.3000).AND.(EPS.GT.0.0))
/ GO TO 1
ILL=30000
RETURN
1 DO 10 I=1,N
X(I)=I
10 CONTINUE
DO 110 K=1,N
M=K
W=0.0
DO 20 I=K,N
ABSA=ABS(A(I,K))
IF(ABSA.LE.W) GO TO 20
W=ABSA
M=I
20 CONTINUE
IF(M.EQ.K) GO TO 50
L=X(M)

```



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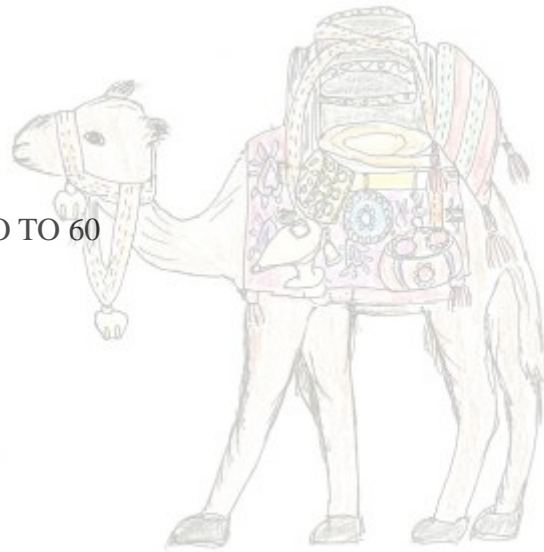


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```

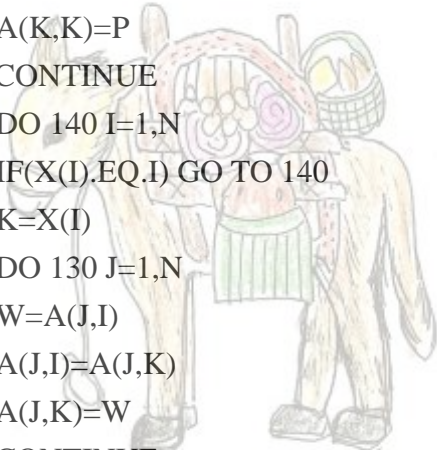
X(M)=X(K)
X(K)=L
DO 40 J=1,N
W=A(K,J)
A(K,J)=A(M,J)
A(M,J)=W
40 CONTINUE
50 IF(ABS(A(K,K)).GE.EPS) GO TO 60
ILL=K
RETURN
60 P=1.0/A(K,K)
DO 70 J=1,N
A(K,J)=A(K,J)*P
70 CONTINUE
DO 100 I=1,N
T=-A(I,K)
B=(I.NE.K).AND.(T.NE.0.0)
IF(.NOT.B) GO TO 100
DO 90 J=1,N
A(I,J)=A(I,J)+A(K,J)*T
90 CONTINUE
100 A(I,K)=P*T
A(K,K)=P
110 CONTINUE
DO 140 I=1,N
120 IF(X(I).EQ.I) GO TO 140
K=X(I)
DO 130 J=1,N
W=A(J,I)
A(J,I)=A(J,K)
A(J,K)=W
130 CONTINUE
L=X(I)
X(I)=X(K)
X(K)=L
GO TO 120
140 CONTINUE
write(*,*) 'minvs'

```



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RETURN

END

C

C

SUBROUTINE WA(A,B,NA,N,NS)

C*****

C

C [A]n,ns + [B]n,ns =====> [B]n,ns

C*****

REAL A(NA,NA),B(NA,NA)

DO 100 I=1,N

DO 100 J=1,NS

B(I,J)=A(I,J)+B(I,J)

100

CONTINUE

write(*,*) 'wa'

RETURN

END

C

C

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C

SUBROUTINE SA(A,B,NA,N,NS)

C*****

C

C [A]n,ns - [B]n,ns =====> [B]n,ns

C*****

REAL A(NA,NA),B(NA,NA)

DO 100 I=1,N

DO 100 J=1,NS

B(I,J)=A(I,J)-B(I,J)

100

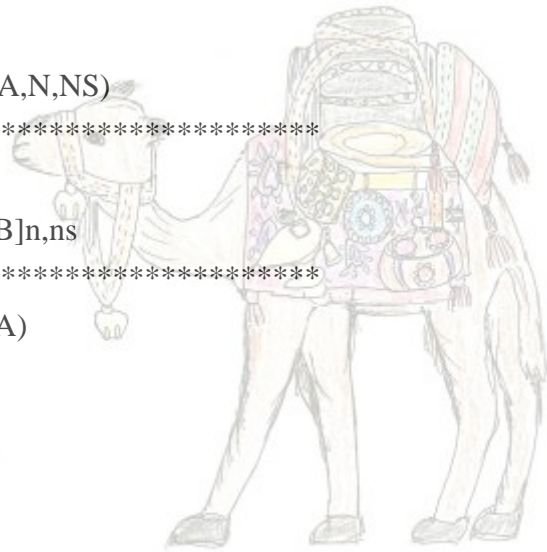
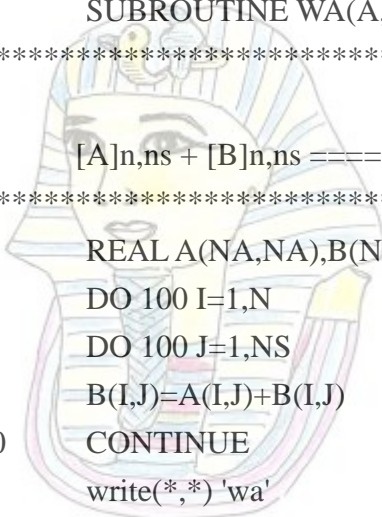
CONTINUE

write(*,*) 'sa'

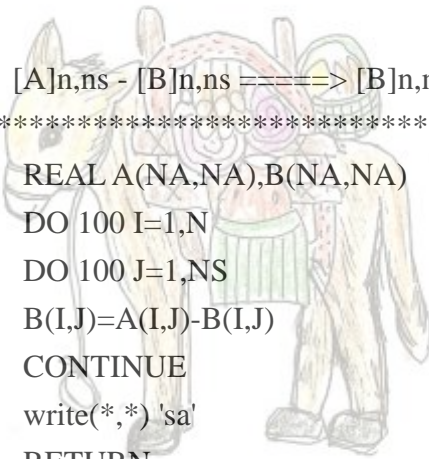
RETURN

END

C



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