APPENDIX 2

GENERATION OF $^nC_r$ COMBINATIONS

C FORTRAN code to generate $^nC_r$ combinations.
DIMENSION A(20),B(20),C(200)
READ(*,*)IN,IR
DO 20 I=1,IR
20 A(I)=I
B(1)=IN+1-IR
DO 30 J=1,IR
30 B(J+1)=B(J)+1
MM=1
100 DO 40 K=1,IR
40 C(MM)=A(K)
IF(A(1).EQ.B(1)) GO TO 1000
DO 55 M=1,IR
IM=IR+1-M
A(IM)=1+A(IM)
IF(A(IM).LE.B(IM)) GO TO 105
55 CONTINUE
105 DO 25 M=IM,IR
25 A(M+1)=A(M)+1
GO TO 100
1000 MM=MM+1
I=1
IX=IR
1100 IF(IX.GT.MM) GO TO 1200
WRITE(*,*) (C(J),J=I,IX)
I=I+IR
IX=IX+IR
GOTO 1100
1200 STOP
END