

Homework - Due Tuesday, May 9

Write a program to print out factorials from 1 to 7

You can use the `f77` command to compile your program:

```
f77 fact.f
```

compiles file `fact.f` and makes an executable called `a.out`

```
a.out
```

runs the last compiled program

The output format should have 2 columns of the integer followed by 6 columns with the corresponding factorial

Use the `PRINT` statement to print the answer

Output should look like:

```
Δ1ΔΔΔΔΔ1
```

```
Δ2ΔΔΔΔΔ2
```

```
Δ3ΔΔΔΔΔ6
```

```
Δ4ΔΔΔΔ24
```

```
Δ5ΔΔΔ120
```

```
Δ6ΔΔΔ720
```

```
Δ7ΔΔ5040
```

where `Δ` is the space character

FORTRAN Code Examples

Print numbers from 1 to 10 twice

```
1 FORMAT(10I,10I)
   DO 10 K = 1,10
10 PRINT 1,K,K
   END
```

Subroutine Call

```
DIMENSION X(2,2),Y(2,2),Z(2,2)
CALL MATMPY(X,Y,Z,2,2,2)
END
```

Matrix Multiplication

```
SUBROUTINE MATMPY(A,B,C,L,M,N)
DIMENSION A(L,N),B(L,M),C(M,N)
DO 20 I = 1,L
DO 20 K = 1,N
SUM = 0.0
DO 10 J = 1,M
10 SUM = SUM + B(I,J)*C(J,K)
20 A(I,K) = SUM
RETURN
END
```