

EXAMPLE 9.1

```
OPTIONS NOCENTER FORMDLIM='-' ;
PROC IMPORT OUT= WORK.AAA
    DATAFILE= "your path\Table9-1.xls"
    DBMS=EXCEL REPLACE;
    SHEET="Sheet1$";
    GETNAMES=YES;
    MIXED=NO;
    SCANTEXT=YES;
    USEDATE=YES;
    SCANTIME=YES;
RUN;

PROC CONTENTS DATA=AAA ; RUN ; QUIT ;

PROC SORT DATA=AAA ; BY DAY1 ; RUN ;
DATA BBB ;
    SET AAA ;
    DIF=. ;
    IF _N_ LE 7 THEN DO ;
        IF DAY1<DAY2 THEN DIF=1 ;
        IF DAY1>DAY2 THEN DIF=0 ;
    END ;
    IF _N_ GE 27 THEN DO ;
        IF DAY1<DAY2 THEN DIF=0 ;
        IF DAY1>DAY2 THEN DIF=1 ;
    END ;
RUN ;
PROC PRINT DATA=BBB ; RUN ;
PROC FREQ;
    TABLES DIF/BINOMIAL(P=0.5);
    EXACT BINOMIAL;
RUN; QUIT ;
```

The FREQ Procedure

DIF	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	4	28.57	4	28.57
1	10	71.43	14	100.00

Frequency Missing = 19

Binomial Proportion for DIF = 0

Proportion (P)	0.2857
ASE	0.1207
95% Lower Conf Limit	0.0491
95% Upper Conf Limit	0.5224

Exact Conf Limits

95% Lower Conf Limit	0.0839
95% Upper Conf Limit	0.5810

Test of H0: Proportion = 0.5

ASE under H0	0.1336
Z	-1.6036
One-sided Pr < Z	0.0544
Two-sided Pr > Z	0.1088

Exact Test

One-sided Pr <= P	0.0898
Two-sided = 2 * One-sided	0.1796

Effective Sample Size = 14

Frequency Missing = 19

WARNING: 58% of the data are missing.

RED: RESULTS SOUGHT

LIGHT BLUE: NOT RELEVANT TO THIS ANALYSIS