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

<table>
<thead>
<tr>
<th>DIF</th>
<th>Frequency</th>
<th>Percent</th>
<th>Cumulative Frequency</th>
<th>Cumulative Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>4</td>
<td>28.57</td>
<td>4</td>
<td>28.57</td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>71.43</td>
<td>14</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Frequency Missing = 19

Binomial Proportion for DIF = 0

<table>
<thead>
<tr>
<th>Proportion (P)</th>
<th>0.2857</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASE</td>
<td>0.1207</td>
</tr>
<tr>
<td>95% Lower Conf Limit</td>
<td>0.0491</td>
</tr>
<tr>
<td>95% Upper Conf Limit</td>
<td>0.5224</td>
</tr>
</tbody>
</table>

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**