called centering the 4-year moving averages. The process continues until the end of the series to get 4-years moving averages centered. The moving averages of some proper period smooth out the short term fluctuations and the trend is measured by the moving averages.

Example: Compute 5-year, 7-year and 9-year moving averages for the following data.

Years	1990	1991	1992	1993	1994	1995	1996	19997	1998	1999	2000
Values	2	4	6	8	10	12	14	16	18	20	22

Solution:

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The necessary calculations are given below:

		5-Year Moving		7-Year	Moving	9-Year Moving	
Years	Values	Total	Average	Total	Average	Total	Average
1990	2						
1991	4						
1992	6	30	6				
1993	8	40	8	56	8		
1994	10	50	10	70	10	90	10
1995	12	60	12	84	12	108	12
1996	14	70	14	98	14	126	14
1997	16	80	16	112	16		
1998	18	90	18				
1999	20						
2000	22						

Example: Compute 4-year moving averages centered for the following time series:

Years	1995	1996	1997	1998	1999	2000	2001	2002
Production	80	90	92	83	87	96	100	110

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Solution:

The necessary calculations are given below:

Year	Production	4-Year Moving Total	4-Year Moving Average	2-values Moving Total	4-year Moving Average Centered
1995	80				
1996	90	345	86.25		
1997	92	352	88.00	174.25	87.125
1998	83	358	89.50	177.50	88.750
1999	87	366	91.50	181.00	90.500
2000	96	393	98.25	189.75	94.875
2001	100				
2002	110				

← Advantages and Disadvantages of the Moving Average Method

Advantages and Disadvantages of the Semi-Averages Method ⇒

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