

4. Herbs

File *noveny.txt* contains data about the names and gathering periods of herbs (a text file tagged by tabs). Solve the following exercises using a worksheet processor.

During the solution take the following into consideration.

- Whenever possible, use a formula, function or reference in the solution.
- There are parts in the exercise that use the results from a previous question. If you could not solve the previous part completely, use its solution as it is, or instead of a formula resulting in a number use an arbitrary integral number and work on with this value. This way you can receive marks for these exercise parts as well.
- If required, you can create auxiliary tables to the right of column H of the worksheet.

1. Open file *noveny.txt* using a worksheet processor in such a way that the first read data appears in cell A1. Save the table in the default format of the worksheet processor as *noveny*.

	A	B	C	D	E	F	G
1	Name	Gathered	Gstart	Gend	Gperiod		Earliest herb:
2	Acsalapu	leaf	6	8			
3	Akác	flower	5	9			Latest leaf:
4	Apróbojtorj	flowering s	6	8			
5	Aranyvess	flowering s	7	8			Leaf:
6	Bakfű	flowering s					
7	Berke						

The meaning of the columns in the source data is:

Name	Name of the herb
Gathered	Gathered part of the herb
Gstart	First month of the gathering period
Gend	Last month of the gathering period

2. In column E (Gperiod), calculate the number of months in the gathering period of each herb using the same calculation method. Take into consideration that there are plants that are gathered in winter. In the case of these herbs the number of the first month of the period (Gstart) is higher than the number of the last month (Gend). E.g. acsalapu (butterbur) can be gathered for 3 months and bojtorján (burdock) can be gathered for 8 months.
3. For a given year, what is the number of the month when the gathering of first herb starts? The function giving the answer should be entered in cell G2.
4. In cell G4, give the number of the month when the gathering of herbs gathered for their leaves finishes in a given year using a function. (If required, you can enter auxiliary data in column H.)
5. In cell G6, give the number of herbs gathered for their leaf.
6. Collect the names of the herbs gathered for their leaf under cell G8 (no other data are required).
7. Sort the list of the herbs and their corresponding data according to the length of the gathering period into decreasing order.

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8. Set thin cell borders for the data located in columns *A:D*, the other cells should appear without borders in the print preview.
 9. The font colour of the columns containing calculated values should be blue.
 10. Set the column widths so that every part of the text is visible but your work fits into 1 page in the print preview.
 11. In the header, title “Herbs” should appear on the left and today’s date should be inserted on the right side.
 12. On a new worksheet, show the beginning and the length of the gathering period using a stacked bar chart. The chart should include a legend, the name of the herbs, the months but should not include any other data and title. Set the width of the columns thicker than the default value.

The columns representing the beginning of the gathering period should be white and the columns representing the length of the gathering period should be dark green.

30 marks
