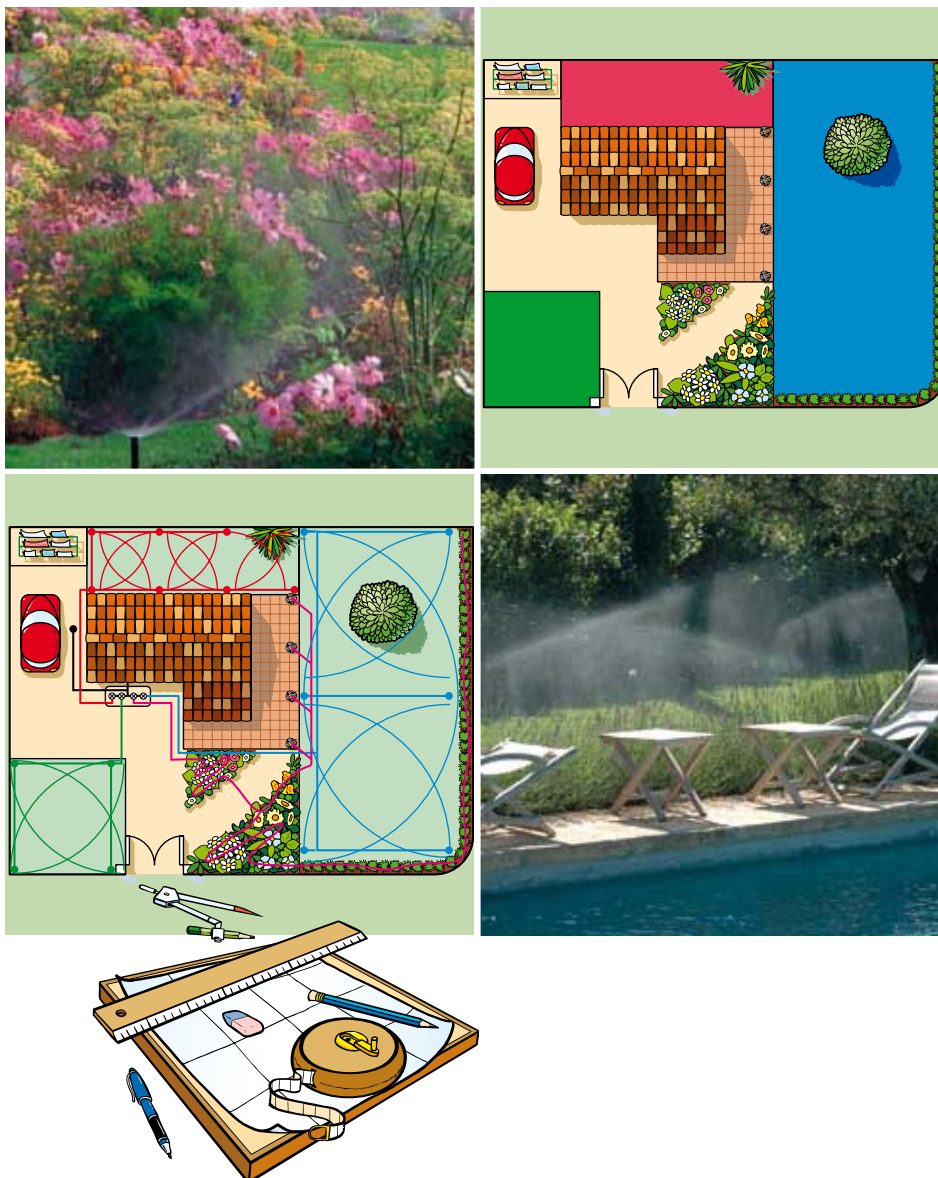




Automatic watering
Designing my project



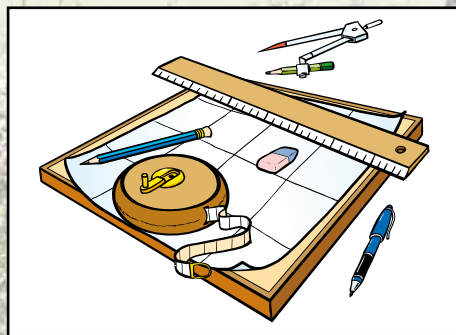
Plants do not receive all the water they need from nature.

An automatic watering system allows you:

- To regularly provide water that is necessary for your plants.
- To have an always green lawn.
- To keep your spare time for leisure and to relax.
- And especially to save water.



1 Draw a sketch of your garden



To draw your plot plan, you need:

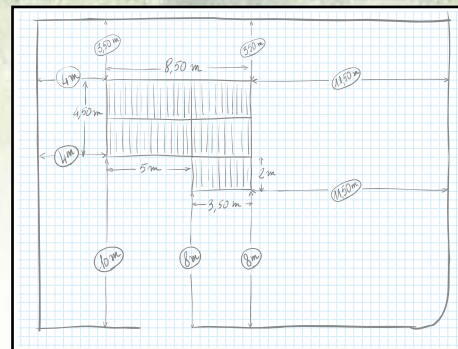
- 1 sheet of paper
- 1 tape measure
- 1 pair of compasses
- 1 pencil
- 1 felt-tip pen
- 1 ruler
- 1 eraser

Start the sketch of your garden by locating the house and the property line.

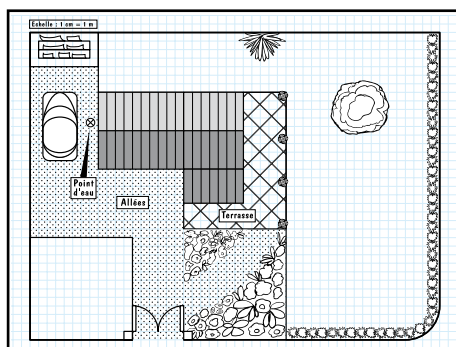
Draw the sidewalks, terraces, sheds, etc... using an angle of the house as a reference point.

Indicate those areas which are to be watered & which are not to be watered.

Also indicate the location of trees, shrubs, hedges and flower beds.



Indicate the location of the water supply point and any slopes if they exist.



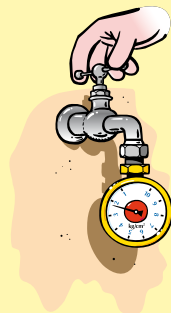
After carefully completing the sketch, design your plan on the sheet of graph paper which follows.

2 Calculate the pressure and the flow of your installation

Water Availability

Pressure

(force exerted by water on a given surface)



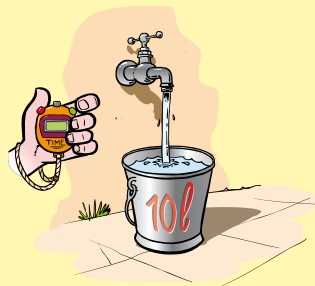
Expressed in kilos per square centimetre (kg/cm^2) or in bar, it is measured using a pressure gauge connected to your water inlet faucet.

If you do not have a pressure gauge, ask the water company to indicate the water pressure.

To function correctly your installation must have at least $2\text{ kg}/\text{cm}^2$ (2 bar). If your pressure exceeds $5\text{ kg}/\text{cm}^2$, (5 bar) a pressure reducer is necessary.

Flow

(quantity of water provided during a given time)



Expressed in cubic meters per hour (m^3/h), you will find it on your water company contract. It is more advisable to check it yourself: fill a 10 litre bucket with water, by using **the nearest tap to the water meter** and check how long it takes to fill the bucket (*in seconds*).

**If you use a pump, refer to the technical note which indicates the pressure and the flow available.*

PRINCIPLE OF CALCULATION OF THE FLOW


$$\frac{\text{Contents (liters)}}{\text{time (seconds)}} \times 3,6 = \text{flow in } m^3/h$$

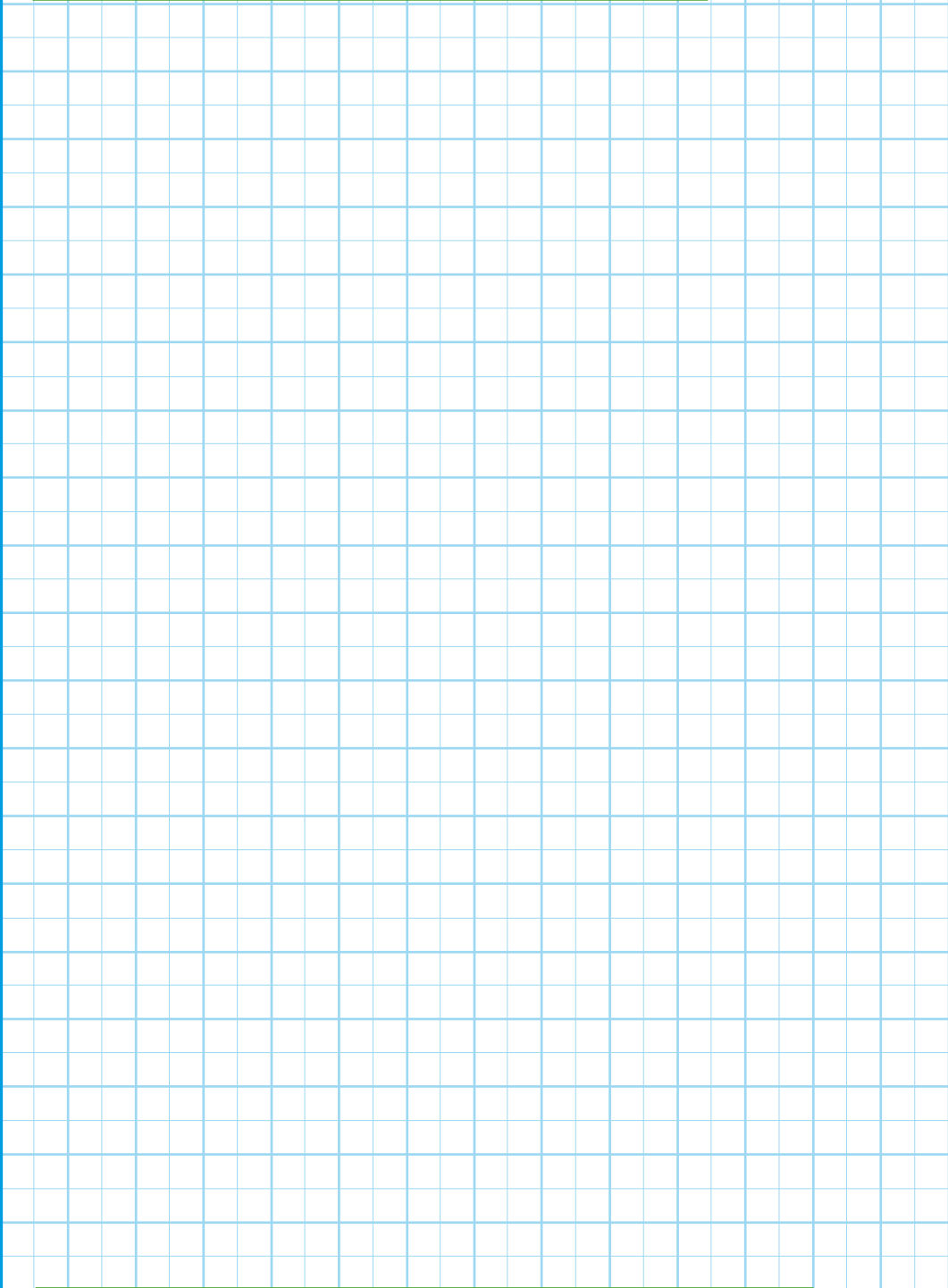
In our example, we fill the bucket with 10 liters in 12 seconds.

$$\text{Using the formula above: } \frac{10 \times 3,6}{12} = 3\text{ m}^3/\text{heure}$$

***Draw here the scale plan of your garden
and return it to your point of sale***

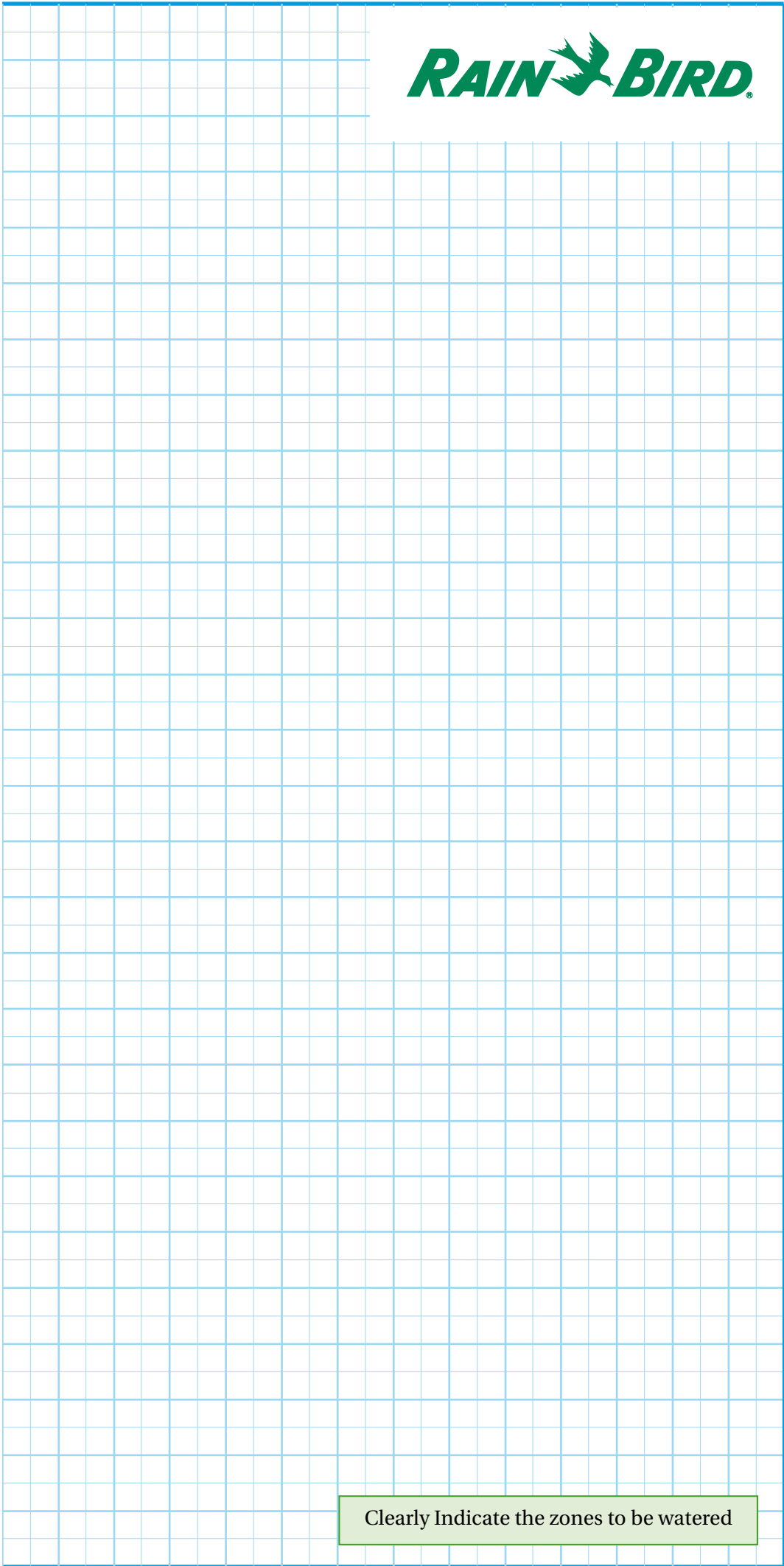
NAME OF THE CUSTOMER:.....	PRESSURE	FLOW
Address:.....
Phone:.....	BAR	m ³ /h
Project presented on:.....		
Project realization scheduled for:.....		

Scale:

 1 cm =m.



Note here the water source used for watering

Well: depth.....m
 Bore hole: depth.....m Diameter.....Ø
 City water
 Water supply point
 Do you want a pump?
 yes
 no



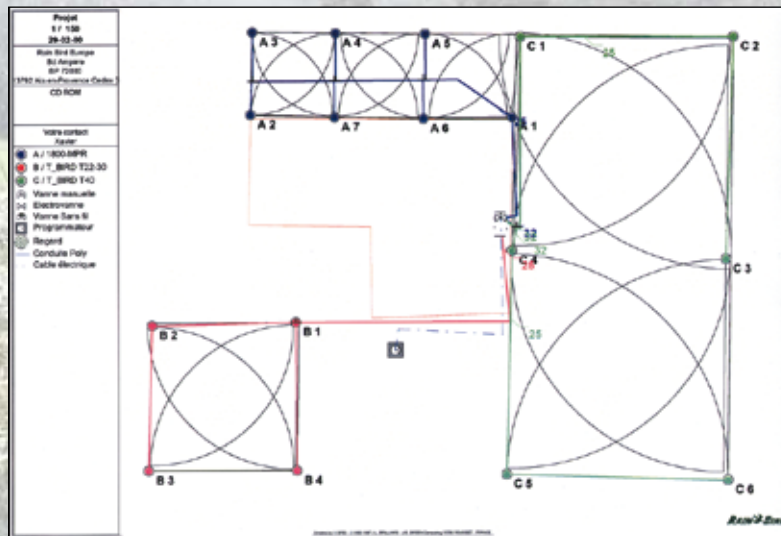
Clearly Indicate the zones to be watered

3 *Have a design made of your final plan*

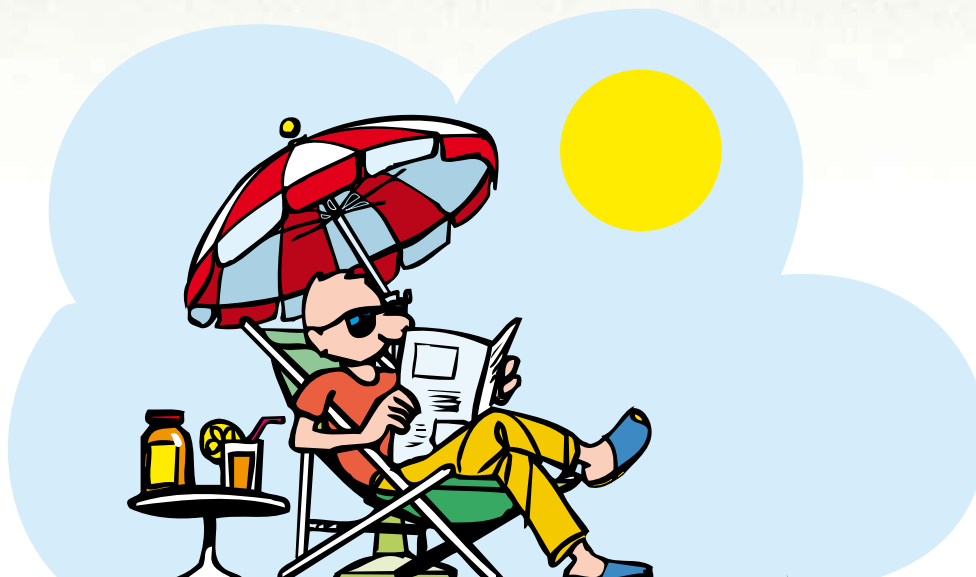
- Bring your final plan (central sheet) to your technical expert for a fast, reliable and free design.
- «B.I.R.D.» Software automatically takes care of all hydraulic calculations: taking into account the pressure, the flow and the location of the sprinklers.
- The Software automatically calculates the list of products and the bill of quantity.

...You are sure not to forget anything.

Example of an installation design carried out by B.I.R.D software.



Once your watering system is installed you have spare time for your leisure and you can relax enjoying a green and flowered garden.



RAIN BIRD®

ANATOMY OF AN AUTOMATIC WATERING SYSTEM



A
Accessories: SP-100, fittings Multi-conductor
Irrigation Cable
KING Connectors



B
Sprinklers:
5000 Plus Series (7,6 m - 15,2 m)
3504 (4,6 m - 10,7 m)



C
Uni-Spray Series (2,1 m - 5,5 m)
1800 Series (0,6 m - 5,5 m)



D
Drip watering
Control zone
start up kit

Inline emitter tubing



E
RSD-BEx Rain sensor



F
230V controller: ESP Modular
9V controller: WP Series



G
Valve : 100 -DV



H
Valve boxes

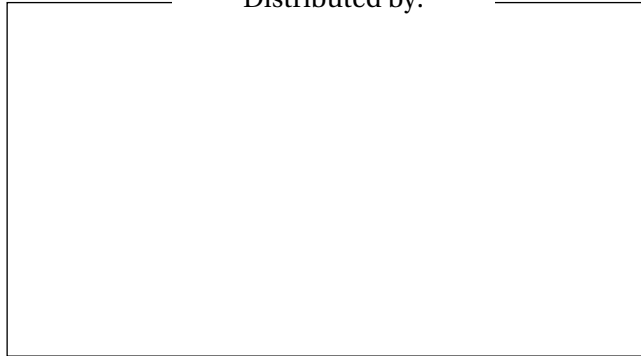
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