

# C++ OOP – Regular Exam – 25 August 2024

## 1. Trees

You've got a class object hierarchy structure with the following members:

### Tree

- Pine
- Oak
- Maple

Each tree has distinguished features, but they all share base class, which you must complete in order to achieve working program.

Study the skeleton and provide **Tree.h** and the completion of any other missing method, so that the program compiles and provides the correct output.

### Input

A list of identifiers (**pine**, **oak** or **maple**), which describe which tree must be added to the list, ending with **`end`**.

### Output

An ordered list of the distinctive features for each tree type from the input.

### Examples

Input	Output
pine maple oak maple end	1. Pine tree with rounded leaves, which produces needles and cones and is great for walking under, because it's evergreen.  2. Maple tree with palmate, hand-like leaves, which produces helicopter seeds and is great for maple syrup production.  3. Oak tree with lobed leaves, which produces acorns and is great for wood working, because it's hard.  4. Maple tree with palmate, hand-like leaves, which produces helicopter seeds and is great for maple syrup production.
maple pine oak oak end	1. Maple tree with palmate, hand-like leaves, which produces helicopter seeds and is great for maple syrup production.  2. Pine tree with rounded leaves, which produces needles and cones and is great for walking under, because it's evergreen.  3. Oak tree with lobed leaves, which produces acorns and is great for wood working, because it's hard.  4. Oak tree with lobed leaves, which produces acorns and is great for wood working, because it's hard.

