# $\underset{\text{PHP homework}}{\text{Tree nursery}}$

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## 1 Topic

This program is about the management of a tree nursery. I store the values listed below for every tree.

- 1. id, does nothing for now.
- 2. name, the type of the tree.
- 3. height, measured in [m].
- 4. home, the original location of the plant.
- 5. price
- 6. age

ee nursery List Tree:	5					
	Tree list					
	Id	Name	Height	Home	Price	Age
	0	Birch	1m	Europe	1000	5
	1	Pine	2m	Europe	500	3
	2	Oak	3m	Europe	1500	2
	3	Acacia	2m	America	120	1
	4	Willow	1m	Europe	2500	5
	5	Palm	4m	South-Europe	15000	10
	6	Birch	3m	Europe	3000	7
	7	Pine	9m	Europe	400	7
	7	Oak	10m	Europe	8000	5
	8	Acacia	0.1m	America	10	1
	10	Willow	0.5m	Europe	700	5
	11	Palm	2m	South-Europe	12000	6

Figure 1: List of original trees

## 2 Questions

- 1. Which tree is the highest?
- 2. Which tree is the oldest?
- 3. How much 2 years old trees do we have?
- 4. How much Pine trees do we have?
- 5. How much is the total cost of our trees?

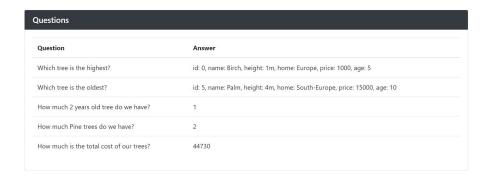


Figure 2: List of questions and answers

#### 3 Random entries

## 4 Complex question

- 1. Union of the two lists.
- 2. Intersection of the two lists.
- 3. Difference (trees random trees).

The numbers represent the number of elements in the results.

d	Name	Height	Home	Price	Age
		30		15716	3
		29		17287	19
		24		10084	3
3		4		5193	12
1		12		18505	1
5		3		10864	15
		18		11901	14
		27		15129	6
		14		19490	7
		15		4514	12
0		6		15601	13
1		25		6930	2

Figure 3: List of randomised entries

Question	Answer
Jnion of the two lists.	30
ntersection of the two lists.	0
Difference (trees - randomtrees).	10

Figure 4: List of complex questions and answers

The second complex question results in 0 elements because of the random factor, so it's table is not displayed.

ee list					
d	Name	Height	Home	Price	Age
)	Birch	1m	Europe	1000	5
	Pine	2m	Europe	500	3
2	Oak	3m	Europe	1500	2
3	Acacia	2m	America	120	1
1	Willow	1m	Europe	2500	5
5	Palm	4m	South-Europe	15000	10
5	Birch	3m	Europe	3000	7
7	Pine	9m	Europe	400	7
3	Oak	10m	Europe	8000	5
)	Acacia	0.1m	America	10	1
)	Pine	28	South-Europe	18976	17
Í	Birch	27	Europe	10885	7
2	Willow	19	America	19375	9

Figure 5: List of the union of the two lists

ld	Name	Height	Home	Price	Age
0	Birch	1m	Europe	1000	5
1	Pine	2m	Europe	500	3
2	Oak	3m	Europe	1500	2
3	Acacia	2m	America	120	1
4	Willow	1m	Europe	2500	5
5	Palm	4m	South-Europe	15000	10
6	Birch	3m	Europe	3000	7
7	Pine	9m	Europe	400	7
3	Oak	10m	Europe	8000	5
9	Acacia	0.1m	America	10	1

Figure 6: List of differences