- Write a program that prints out a multiplication table for a number given as its command line argument
  - but this time with correctly aligned numbers and operators

$$1 * 8 = 8$$
  
 $9 * 8 = 72$   
 $10 * 8 = 80$ 



- Write a program that as the commandline argument accepts a *path* to a file (e.g., /home/petr/myfile.py) and print the individual path elements and the file extension
  - Should work correctly also for paths without extensions or without directories
- Write a program that as the commandline argument accepts a number n and computes the value of n+nn+nn



- Write a program that as the command-line argument accepts two non-negative integers and prints out a number of primes between these integers
  - the program should accept the integers in any order, i.e., count\_primes.py 0 10 and count\_primes.py 10 0 have to give the same value



- Write a program that accepts a string as a command-line argument and prints out all permutations of the string
  - If the string contains the same character multiple times, the program may print out several lines that are the same (i.e. all characters are treated as distinct)
  - The order in which permutations are printed does not matter

#### print\_permutations.py abc

abc

acb

bac

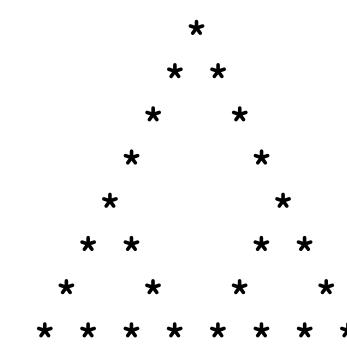
bca

cab

cba



- Write a program that for a given number prints out a binary tree that has so many levels
- Example: tree of 4 levels







Department of Distributed and Dependable 0-0