Dynamic Memory – Lab with vectors, objects, and pointers

Read over the whole starter code before you begin. Make sure you understand all the pieces, especially in main.

- 1. Write the print() method for person. This function should print out a person's name and age, along with their dog's name and age if they own a dog. Go to main and make sure print() works OK.
- 2. Write the print_people() function which prints all the people in a vector. Make sure when main calls this function it works.
- 3. Write the adopt_dog() method for person. This method should set the pet pointer to a new dog created on the heap. Go to main and write code to test (there are three test cases to fill in).
- 4. Write the destructor for person. How do you know if you should delete the dog pointer? Test in main you should not get any errors.
- 5. Write the print_dogs() function. This function should print all the dogs who are owned by anybody. Skip over people who don't own a dog.
- 6. Write the switch_dogs() function. This should switch the owners of two dogs.