1. Warm up: Answer the following questions.

(a) If uncompiled code has int a = 10; int* b = &a; then what will the compiled code produce, if the next line is each of the following:

cout << b << endl; cout << *b << endl; cout << &b << endl; cout << **b << endl; cout << &&b << endl;</pre>

- (b) How is memory deallocated after setting a variable? For example, after int a = 10;, how can the memory used by this int be deallocated?
- 2. This question is about *classes*. Define a class pointType to be like a point on the 2dimensional plane. It has:
 - two double members called x and y, representing the position of the point (do not initialize these values),
 - a function eDist that computes the (Euclidean) distance between two points,
 - a function mDist that computes the Manhattan distance between two points.

For example, if p is at (1, 2) and q is at (4, 6), then p.eDist(q) returns 5 and p.mDist(q) returns 7. Include error handling for the exception when computing distance, the pointType does not have initialized values.