Quiz 10: Admissible Heuristics

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2/2 points (ungraded)

Consider the problem of Pacman eating all dots in a maze. Every movement action has a cost of 1. Select all heuristics that are admissible, if any.

- [x] the total number of dots left
- [x] the distance to the closest dot
- [x] the distance to the furthest dot
- [ ] the distance to the closest dot plus distance to the furthest dot
- [ ] none of the above

✔

Consider the pancake flipping problem described earlier in the lecture. Recall that we can put the spatula anywhere in the stack and flip the group of pancakes above the spatula.

Let's change the problem slightly: rather than having the cost be equal to the number of flipped pancakes, let the cost be 1 for every flip, regardless of how many pancakes are flipped. Select all heuristics that are admissible, if any.

- [x] 1 if at least one pancake is out of place, 0 otherwise
- [ ] the number of pancakes that are out of place

- [ ] none of the above

✔

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✔ Correct (2/2 points)