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| --- |
| Queue Robot:  size = 1000, min = 4425.8621, average = 20739.2013, median = 20818.8126, sd = 5362.6938, max = 50944.9644 |
| Stack Robot:  size = 1000, min = 16292.3490, average = 45479.5919, median = 45546.9042, sd = 9425.5371, max = 79017.6969 |

Project 2 Report

I initially thought that the stack robot will move the largest median distance because assuming that both robots have detected energy locations at the same rate meaning they both detect the same amount of energy locations when the stack robot gets hungry it will move to the one that it added very recently. What I got was exactly that I found out that the Stack is moving more distance than the queue therefore I think that the stack is a better memory structure for robot energy detection memory than the queue because assume that the queue robot moves and it detect an energy location (I will call it EL1) then it moves some more and detects another one (I will call it EL2) then it gets hungry so it will try to go to EL1 but with the stack robot it will try to go to EL2 first because it’s on the top of the stack