

ECE 2230
MP5 Performance Evaluation
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	Successful Search	Unsuccessful Search	Time after exercise
Poor	268	270.992	65.109
Random	37.842	40.8408	29.713
Optimal	27	30	25.994

	Successful Search	Unsuccessful Search	Time after exercise
Poor	268	270.992	66.41
Random	38.3351	41.3338	25.293
Optimal	27	30	22.646

I ran each test with 15 levels and 100000 trials. Test 2 is different in that I set a seed of 12345 for each trial and ran with the verbose flag on. For both tests, there is a clear distinction between poor, random, and optimal trees, with optimal being the most most efficient and poor being the worst. The poor tree takes over twice as long to run as the random or optimal, which leads me to believe complexity class changes for a worse-case scenario.