

Dynamic Programming and Optimal Control

Results Programming Exercise 1

Nummer	Prgramming Exercise 1								# correct 1st	Avg Time DPA	Avg Time LCA	total %
	P1, DPA	P1, LCA	P2, DPA	P2, LCA	P3, DPA	P3, LCA	P4, DPA	P4, LCA				
00-914-754	1	1	1	1	1	1	1	1	4	0.0903	0.1539	100
01-713-049												
01-916-899												
01-923-101												
02-804-011												
02-911-659												
03-906-781	1	1	1	1	1	1	1	1	4	0.0947	0.0146	100
03-908-035	1	1	1	1	1	1	1	1	4	0.0518	0.6361	100
03-908-571	1	1	1	1	1	1	1	1	4	2.4066	0.1643	100
03-909-892	1	1	1	1	1	1	1	1	4	0.1275	0.0370	100
03-910-486	1	1	1	1	1	1	1	1	4	0.0998	0.4053	100
03-913-977												
03-917-713	1	1	0	1	1	1	1	1	3	0.0693	1.0839	70
03-918-604												
04-906-830	1	1	1	1	1	1	1	1	4	2.8744	0.3532	100
04-915-559												
04-920-393												
04-921-409	1	1	1	1	1	1	1	1	4	0.1164	0.3602	100
05-819-636												
05-906-839	1	1	1	1	1	1	1	1	4	0.0400	0.0449	100
05-906-896	1	1	1	1	1	1	1	1	4	0.0371	0.0427	100
05-907-431	1	1	1	1	1	1	1	1	4	0.0434	0.0381	100
05-907-894	1	1	1	1	1	1	1	1	4	0.0998	0.4053	100
05-908-629	1	1	1	1	1	1	1	1	4	0.1164	0.3602	100
05-908-793												
05-908-868	1	1	1	1	1	1	1	1	4	2.2539	0.1696	100
05-910-047	1	1	1	1	1	1	1	1	4	0.0512	0.1326	100
05-910-310	1	1	1	1	1	1	1	1	4	0.0434	0.0381	100
05-910-559	1	1	1	1	1	1	1	1	4	0.0683	0.0544	100
05-910-567	1	1	1	1	1	1	1	1	4	0.0947	0.0146	100
05-910-583												
05-910-591	1	1	1	1	1	1	1	1	4	0.1164	0.3602	100
05-911-789	1	1	1	1	1	1	1	1	4	0.0371	0.0427	100
05-912-456	1	1	1	1	1	1	1	1	4	0.0453	0.5908	100
05-912-522	1	1	1	1	1	1	1	1	4	1.9930	0.6553	100
05-913-587	1	1	1	1	1	1	1	1	4	0.0453	0.5908	100
05-914-171												
05-914-213	1	1	1	1	1	1	1	1	4	2.1535	0.0522	100
05-914-478												
05-914-734	1	1	1	1	1	1	1	1	4	0.0640	0.0218	100
05-915-061	1	1	1	1	1	1	1	1	4	0.0640	0.0218	100
05-915-152	1	1	1	1	1	1	1	1	4	0.0434	0.0381	100
05-915-350	1	1	1	1	1	1	1	1	4	0.0640	0.0218	100
05-915-566	1	1	1	1	1	1	1	1	1	3.0597	0.2909	80
05-915-954	1	1	1	1	1	1	1	1	4	0.0371	0.0427	100
05-919-352	1	1	1	1	1	1	1	1	0	2.3684	0.4092	80
05-919-816	1	1	1	1	1	1	1	1	4	1.9930	0.6553	100
05-919-840	1	1	1	1	1	1	1	1	4	0.1334	0.2872	100
05-920-244	1	1	1	1	1	1	1	1	4	0.1176	0.1639	100
05-925-052	1	1	0	1	1	1	1	1	3	0.0693	1.0839	70
05-925-599	1	1	1	1	1	1	1	1	4	0.0903	0.1539	100
05-925-680	1	1	1	1	1	1	1	1	4	0.1334	0.2872	100
05-925-722	1	1	1	1	1	1	1	1	4	0.0454	0.8947	100
06-907-380	1	1	1	1	1	1	1	1	4	2.0818	0.0183	100
06-908-644	1	1	1	1	1	1	1	1	4	0.0927	0.8965	100
06-908-883	1	1	1	1	1	1	1	1	4	0.9974	0.1766	100
06-910-178												
06-911-143	1	1	1	1	1	1	1	1	0	0.0524	0.3154	80
06-911-457	1	1	1	1	1	1	1	1	4	0.9974	0.1766	100
06-914-659	1	1	1	1	1	1	1	1	4	0.1334	0.2872	100
06-914-956	1	1	1	1	1	1	1	1	4	2.2539	0.1696	100
06-914-998	1	1	1	1	1	1	1	1	1	0.0752	0.0599	80
06-915-029	1	1	1	1	1	1	1	1	4	0.0927	0.8965	100
06-915-425	1	1	1	1	1	1	1	1	4	0.0726	0.7222	100

06-915-441	1	1	1	1	1	1	1	1	1	4	0.0726	0.7222	100
06-916-340	1	1	1	1	1	1	1	1	1	1	0.0752	0.0599	80
06-916-985	1	1	1	1	1	1	1	1	1	4	0.0821	0.0524	100
06-917-009	1	1	1	1	1	1	1	1	1	4	0.0613	0.5736	100
06-917-397	1	1	1	1	1	1	1	1	1	4	2.2395	0.0222	100
06-917-421	1	1	1	1	1	1	1	1	1	4	2.0818	0.0183	100
06-918-254	1	1	1	1	1	1	1	1	1	4	2.2539	0.1696	100
06-920-599													
06-920-755	1	1	1	1	1	1	1	1	1	4	0.0726	0.7222	100
06-922-900	1	1	1	1	1	1	1	1	1	4	0.0927	0.8965	100
06-923-015	1	1	1	1	1	1	1	1	1	0	0.0524	0.3154	80
06-928-857	1	1	1	1	1	1	1	1	1	4	2.1124	0.2828	100
07-901-580													
07-930-217													
07-931-603													
07-933-492	0	1	0	1	0	1	0	1	1	0	3.2283	0.0606	40
08-902-496	1	1	1	1	1	1	1	1	1	4	0.0903	0.1539	100
08-906-307	1	1	1	1	1	1	1	1	1	4	0.1275	0.0370	100
08-908-634	1	1	1	1	1	1	1	1	1	4	2.0964	0.2413	100
08-924-920	1	1	1	1	1	1	1	1	1	4	0.0518	0.6361	100
08-932-626	1	1	1	1	1	1	1	1	1	4	0.0829	0.0606	100
08-938-714													
09-900-739													
09-901-562	1	1	1	1	1	1	1	1	1	4	0.1275	0.0370	100
09-907-411	1	1	1	1	1	1	1	1	1	4	0.0973	0.0542	100
09-908-484	1	1	1	1	1	1	1	1	1	4	0.0973	0.0542	100
09-909-193													
09-909-847													
09-909-961	1	1	1	1	1	1	1	1	1	4	2.4724	0.1570	100
09-931-676	1	1	1	1	1	1	1	1	1	4	0.0683	0.0544	100
09-934-399	1	1	0	1	0	1	0	1	1	1	0.0566	1.1685	50
09-934-886	1	1	1	1	1	1	1	1	1	1	3.0597	0.2909	80
09-935-123	1	1	1	1	1	1	1	1	1	4	0.0758	0.0225	100
09-935-164	1	1	1	1	1	1	1	1	1	4	4.0287	0.5507	100
09-935-362	1	1	1	1	1	1	1	1	1	4	0.0758	0.0225	100
09-935-958													
09-935-990	1	1	1	1	1	1	1	1	1	4	0.0613	0.5736	100
09-936-451	1	1	1	1	1	1	1	1	1	4	4.0287	0.5507	100
09-936-584	1	1	1	1	1	1	1	1	1	4	0.0973	0.0542	100
80-911-258													

Remarks

4 Problems (P1...P4) were used for evaluation, where P1 is the original problem data and P2 to P4 were generated with the given problem data generator. Each problem was solved with Dynamic Programming (DPA) and the Label correcting algorithm (LCA). The execution time was averaged over 5 executions per problem and method.

Grading

If the initial submission was correct for all problems, the student received 100%. If not, the student received 10% per correct result. The students whose initial submission did not yield the correct result for all problems had the chance to resubmit their code.