

Input Problems	BFS			DFS			IDDFS			A* with Out-Of-Place			A* with Manhattan Distance			IDA* with Out-Of-Place			IDA* with Manhattan Distance			
	Solution	Num of Expanded Nodes		Solution	Num of Expanded Nodes		Solution	Num of Expanded Nodes		Solution	Num of Expanded Nodes		Solution	Num of Expanded Nodes		Solution	Num of Expanded Nodes		Solution	Num of Expanded Nodes		
160273485	DOLLURDOLLDRUULLDD	12045	DOLLURDOLLDRUULLDD	4516	DOLLURDOLLDRUULLDD	65669	DOLLURDOLLDRUULLDD	151	DOLLURDOLLDRUULLDD	388	DOLLURDOLLDRUULLDD	3532	DOLLURDOLLDRUULLDD	367								
462301587	RODLURULLDRDLURDLRDLDR	125887	ULDRURDLRDLURDLRDLDR	105335	ROLURULLDRULRDLRDLDR	323097	DRDLURULLDRDLURDLURDL	16792	ROLURDLRDLURDLRDLRDL	2866	ROLURULLDRDLURDLRDLRDL	144155	ROLURDLRDLURDLRDLRDLDR	7273								
521574360	LUURULLDRULDLURDLURDLDD	175629	ULLDRDLURDLURDLURDLURDLDR	523964	ULURDLRDLURDLURDLURDLURDLDD	1913950	failure	failure	failure	LUURDLRDLURDLURDLURDLU	7699	ULURDLRDLURDLURDLURDLDD	733751	LUURDLRDLURDLURDLURDLURDD	15565							
540196773	DRDLURDLRDLURDLURDLURDL	106977	DOLLURDLRDLURDLURDLURDLURDL	30773	DOLLURDLRDLURDLURDLURDLURDL	1922349	DOLLURDLRDLURDLURDLURDLURDL	1922349	DOLLURDLRDLURDLURDLURDLURDL	1922349	DOLLURDLRDLURDLURDLURDLURDL	765	DOLLURDLRDLURDLURDLURDLURDL	1434								
530478126	DOLLURDLURDLURDLURDLURDL	106523	DOLLDRDLURDLURDLURDLURDLURDL	458414	DOLLDRDLURDLURDLURDLURDLURDL	1622480	DOLLDRDLURDLURDLURDLURDLURDL	1622480	DOLLDRDLURDLURDLURDLURDLURDL	1622480	DOLLDRDLURDLURDLURDLURDLURDL	243	DOLLDRDLURDLURDLURDLURDLURDL	3050								
068314257	DRULLDRDLURDLURDLURDLDR	63400	DRULLDRDLURDLURDLURDLURDLDR	82899	DRULLDRDLURDLURDLURDLURDLDR	648031	RRULLDRDLURDLURDLURDLURDLDR	7401	DRULLDRDLURDLURDLURDLURDLDR	641	DRULLDRDLURDLURDLURDLURDLDR	283	RRULLDRDLURDLURDLURDLURDLDR	408								
453207186	RDLURDLURDLURDLURDLDR	8801	RDLURDLURDLURDLURDLURDLURDLDR	21570	RDLURDLURDLURDLURDLURDLDR	39835	RDLURDLURDLURDLURDLURDLDR	656	RDLURDLURDLURDLURDLURDLDR	2173	RDLURDLURDLURDLURDLURDLDR	268										
128307645	LUURDLURDLURDLURDLURDLDR	375558	LUURDLURDLURDLURDLURDLURDLURDLDR	309709	LUURDLURDLURDLURDLURDLURDLURDLDR	309709	LUURDLURDLURDLURDLURDLURDLURDLDR	3027	LUURDLURDLURDLURDLURDLURDLURDLDR	3027	LUURDLURDLURDLURDLURDLURDLURDLDR	13020	LUURDLURDLURDLURDLURDLURDLURDLDR	252								
035684712	RDLURDLURDLURDLURDLURDLURDLURDL	41159	DORULLDRDLURDLURDLURDLURDLURDLURDL	170338	RDLURDLURDLURDLURDLURDLURDLURDL	6131607	failure	failure	failure	RDLURDLURDLURDLURDLURDLURDLURDL	3348	RDLURDLURDLURDLURDLURDLURDLURDLURDL	254934	RDLURDLURDLURDLURDLURDLURDLURDLURDL	6052							
684317025	RULLDRDLURDLURDLURDLURDLURDLURDL	153700	UURDLURDLURDLURDLURDLURDLURDLURDLURDL	3660	RULLDRDLURDLURDLURDLURDLURDLURDL	6999527	failure	failure	failure	failure	RULLDRDLURDLURDLURDLURDLURDLURDL	1230	RULLDRDLURDLURDLURDLURDLURDLURDLURDL	241235	RULLDRDLURDLURDLURDLURDLURDLURDLURDL	1614						
0285146527	ULURDLURDLURDLURDLURDLURDLURDLURDL	101765	DRDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	17400	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	1891887	failure	failure	failure	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	14485	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	74029	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	1080							
618273490	LUURDLURDLURDLURDLURDLURDLURDLURDL	109335	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	105600	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	2068597	failure	failure	failure	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	14465	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	83966	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	2074							
042385671	DOLLURDLURDLURDLURDLURDLURDLURDLURDL	121714	DRDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	232769	DORULLDRDLURDLURDLURDLURDLURDLURDL	4161951	failure	failure	failure	failure	ROLLDRDLURDLURDLURDLURDLURDLURDLURDL	3519	DORULLDRDLURDLURDLURDLURDLURDLURDLURDLURDL	188689	DORULLDRDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	3526						
420385716	DRULURDLURDLURDLURDLURDLURDLURDLURDL	31804	DOLLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	111134	DOLLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	211701	DULLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	7668	DOLLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	10726	DULLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	600										
054672813	DROLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	61560	DORULDRDLURDLURDLURDLURDLURDLURDLURDLURDL	20044	DRDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	603435	DRDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	16860	DRDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	517	DRDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	23668	DRDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	627								
314572680	LUURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	111919	ULDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	128620	LUURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	18467	LUURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	36	LUURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	36	LUURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	87564	LUURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	2129								
637218045	RRULLDRDLURDLURDLURDLURDLURDLURDLURDLURDL	69897	UURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	1283355	RRULLDRDLURDLURDLURDLURDLURDLURDL	797163	RRULLDRDLURDLURDLURDLURDLURDLURDL	797163	RRULLDRDLURDLURDLURDLURDLURDLURDL	797163	RRULLDRDLURDLURDLURDLURDLURDLURDL	828	RRULLDRDLURDLURDLURDLURDLURDLURDLURDLURDL	661								
430621875	DUOLLDRULURDLURDLURDLURDLURDLURDLURDLURDLURDL	30654	ODULLDRDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	170562	DUOLLDRDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	197444	ODULLDRDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	3614	DUOLLDRDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	3614	DUOLLDRDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	32005	DUOLLDRDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	582								
334724036	ULURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	105349	UURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDLURDL	105349	UURDL																	