Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		11.0	47	8	172	00:00,2
Uniform cost search		11.0	50	9	183	00:00,3
Depth first search		13.0	97	20	338	00:00,9
Iterative deepening search		11.0	2831	15	6612	00:00,2
Greedy best first search	Tiles distance to final position	11.0	28	11	104	00:00,1
	Tiles out of place	12.0	25	15	94	00:00,1
	Tiles distance to final position diagonally	11.0	28	11	104	00:00,1
A* search	Tiles distance to final position	11.0	39	9	143	00:00,7
	Tiles out of place	11.0	50	9	183	00:00,1
	Tiles distance to final position diagonally	**11.0**	**44**	**7**	**161**	**00:00,1**
IDA* search	Tiles distance to final position	11.0	471	8	1686	00:00,1
	Tiles out of place	11.0	477	15	1728	00:00,7
	Tiles distance to final position diagonally	11.0	1675	9	5996	00:00,2

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		10.0	21	6	71	00:00,2
Uniform cost search		10.0	21	5	71	00:00,9
Depth first search		**10.0**	**15**	**6**	**50**	**00:00,3**
Iterative deepening search		10.0	298	7	789	00:00,8
Greedy best first search	Tiles distance to final position	10.0	15	5	51	00:00,4
	Tiles out of place	10.0	21	5	71	00:00,6
	Tiles distance to final position diagonally	10.0	15	5	51	00:00,1
A* search	Tiles distance to final position	10.0	21	5	71	00:00,6
	Tiles out of place	10.0	21	5	71	00:00,1
	Tiles distance to final position diagonally	10.0	21	6	71	00:00,1
IDA* search	Tiles distance to final position	10.0	171	5	557	00:00,6
	Tiles out of place	10.0	155	5	521	00:00,4
	Tiles distance to final position diagonally	10.0	375	6	1240	00:00,3

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		36.0	70	5	229	00:00,2
Uniform cost search		36.0	70	4	229	00:00,2
Depth first search		36.0	55	12	181	00:00,8
Iterative deepening search		36.0	11669	13	34609	00:00,9
Greedy best first search	Tiles distance to final position	36.0	60	7	198	00:00,7
	Tiles out of place	36.0	70	7	229	00:00,1
	Tiles distance to final position diagonally	36.0	60	7	198	00:00,3
A* search	**Tiles distance to final position**	**36.0**	**68**	**5**	**224**	**00:00,3**
	Tiles out of place	36.0	70	4	229	00:00,1
	Tiles distance to final position diagonally	36.0	70	5	229	00:00,1
IDA* search	Tiles distance to final position	36.0	2946	7	9451	00:00,2
	Tiles out of place	36.0	3236	9	10634	00:00,3
	Tiles distance to final position diagonally	36.0	16231	9	52902	00:00,9

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		34.0	254	24	859	00:00,5
Uniform cost search		34.0	251	24	850	00:00,2
Depth first search		42.0	20118	41	54338	00:00,2
Iterative deepening search		34.0	243962141	45	468358723	10:26,9
Greedy best first search	Tiles distance to final position	35.0	168	33	590	00:00,2
	Tiles out of place	37.0	146	40	496	00:00,6
	Tiles distance to final position diagonally	35.0	168	33	590	00:00,3
A* search	**Tiles distance to final position**	**34.0**	**233**	**30**	**802**	**00:00,1**
	Tiles out of place	34.0	251	24	850	00:00,7
	Tiles distance to final position diagonally	34.0	241	24	823	00:00,3
IDA* search	Tiles distance to final position	34.0	18326	80	61271	00:00,1
	Tiles out of place	34.0	14862	116	51059	00:00,1
	Tiles distance to final position diagonally	34.0	48867	81	167939	00:00,3

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		36.0	95	8	306	00:00,1
Uniform cost search		36.0	91	9	291	00:00,9
Depth first search		37.0	66	18	215	00:00,1
Iterative deepening search		36.0	16299	19	46074	00:00,9
Greedy best first search	Tiles distance to final position	39.0	89	10	290	00:00,8
	Tiles out of place	**36.0**	**82**	**13**	**265**	**00:00,3**
	Tiles distance to final position diagonally	39.0	89	10	290	00:00,3
A* search	Tiles distance to final position	36.0	93	12	300	00:00,8
	Tiles out of place	36.0	91	9	291	00:00,2
	Tiles distance to final position diagonally	36.0	91	12	291	00:00,1
IDA* search	Tiles distance to final position	36.0	4665	17	14820	00:00,4
	Tiles out of place	36.0	2816	12	8964	00:00,2
	Tiles distance to final position diagonally	36.0	9925	14	31713	00:00,5

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		34.0	129	10	415	00:00,2
Uniform cost search		34.0	127	9	408	00:00,3
Depth first search		38.0	66	15	214	00:00,5
Iterative deepening search		34.0	19324	14	54276	00:00,8
Greedy best first search	**Tiles distance to final position**	**34.0**	**86**	**9**	**280**	**00:00,1**
	Tiles out of place	36.0	94	11	307	00:00,2
	Tiles distance to final position diagonally	**34.0**	**86**	**9**	**280**	**00:00,1**
A* search	Tiles distance to final position	34.0	90	9	291	00:00,1
	Tiles out of place	34.0	127	9	408	00:00,2
	Tiles distance to final position diagonally	34.0	112	9	359	00:00,2
IDA* search	Tiles distance to final position	34.0	3795	11	12954	00:00,3
	Tiles out of place	34.0	7267	38	23572	00:00,4
	Tiles distance to final position diagonally	34.0	40391	32	133657	00:00,2

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		19.0	255	35	882	00:00,3
Uniform cost search		19.0	258	36	893	00:00,2
Depth first search		23.0	31	23	118	00:00,2
Iterative deepening search		19.0	860289	29	1945792	00:02,3
Greedy best first search	Tiles distance to final position	19.0	70	18	246	00:00,2
	Tiles out of place	23.0	58	23	207	00:00,1
	Tiles distance to final position diagonally	**19.0**	**70**	**18**	**246**	**00:00,1**
A* search	Tiles distance to final position	19.0	182	28	634	00:00,2
	Tiles out of place	19.0	258	36	893	00:00,3
	Tiles distance to final position diagonally	19.0	235	35	814	00:00,3
IDA* search	Tiles distance to final position	19.0	2442	36	8448	00:00,2
	Tiles out of place	19.0	6122	100	21751	00:00,4
	Tiles distance to final position diagonally	19.0	19467	88	69217	00:00,1

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		33.0	89	9	301	00:00,5
Uniform cost search		33.0	89	9	301	00:00,3
Depth first search		34.0	53	16	181	00:00,2
Iterative deepening search		33.0	267094	21	848597	00:01,0
Greedy best first search	Tiles distance to final position	33.0	83	10	284	00:00,2
	Tiles out of place	**33.0**	**76**	**9**	**262**	**00:00,1**
	Tiles distance to final position diagonally	33.0	83	10	284	00:00,1
A* search	Tiles distance to final position	33.0	88	9	299	00:00,6
	Tiles out of place	33.0	89	9	301	00:00,2
	Tiles distance to final position diagonally	33.0	89	10	301	00:00,1
IDA* search	Tiles distance to final position	33.0	13574	26	45577	00:00,7
	Tiles out of place	33.0	4760	18	16473	00:00,3
	Tiles distance to final position diagonally	33.0	38982	21	137418	00:00,2

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		37.0	174	11	566	00:00,1
Uniform cost search		37.0	176	11	572	00:00,2
Depth first search		48.0	83	24	274	00:00,1
Iterative deepening search		37.0	68437	22	182313	00:00,2
Greedy best first search	**Tiles distance to final position**	**37.0**	**124**	**14**	**409**	**00:00,5**
	Tiles out of place	39.0	116	26	383	00:00,5
	Tiles distance to final position diagonally	**37.0**	**124**	**14**	**409**	**00:00,5**
A* search	Tiles distance to final position	37.0	148	10	484	00:00,5
	Tiles out of place	37.0	176	11	572	00:00,2
	Tiles distance to final position diagonally	37.0	156	10	511	00:00,1
IDA* search	Tiles distance to final position	37.0	7631	18	24784	00:00,5
	Tiles out of place	37.0	8599	53	27921	00:00,5
	Tiles distance to final position diagonally	37.0	51051	32	165163	00:00,2

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		38.0	124	9	423	00:00,4
Uniform cost search		38.0	125	9	427	00:00,9
Depth first search		53.0	101	23	348	00:00,1
Iterative deepening search		38.0	73146	23	221213	00:00,3
Greedy best first search	Tiles distance to final position	38.0	95	13	328	00:00,3
	Tiles out of place	40.0	117	13	399	00:00,3
	Tiles distance to final position diagonally	**38.0**	**95**	**13**	**328**	**00:00,1**
A* search	Tiles distance to final position	38.0	104	13	352	00:00,5
	Tiles out of place	38.0	125	9	427	00:00,2
	Tiles distance to final position diagonally	38.0	112	9	380	00:00,2
IDA* search	Tiles distance to final position	38.0	6024	12	21736	00:00,5
	Tiles out of place	38.0	5844	26	19848	00:00,4
	Tiles distance to final position diagonally	38.0	22095	15	75890	00:00,1

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		16.0	398	51	1211	00:00,5
Uniform cost search		16.0	394	53	1201	00:00,4
Depth first search		26.0	36	19	116	00:00,1
Iterative deepening search		16.0	85090	20	188596	00:00,4
Greedy best first search	Tiles distance to final position	19.0	335	29	1047	00:00,3
	Tiles out of place	26.0	83	32	262	00:00,5
	Tiles distance to final position diagonally	19.0	335	29	1047	00:00,7
A* search	**Tiles distance to final position**	**16.0**	**336**	**51**	**1048**	**00:00,1**
	Tiles out of place	16.0	394	53	1201	00:00,1
	Tiles distance to final position diagonally	16.0	362	53	1110	00:00,6
IDA* search	Tiles distance to final position	16.0	8541	83	26081	00:00,6
	Tiles out of place	16.0	7145	123	22333	00:00,7
	Tiles distance to final position diagonally	16.0	24952	121	77915	00:00,2

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		29.0	175	26	580	00:00,3
Uniform cost search		29.0	176	24	582	00:00,2
Depth first search		36.0	1216	26	3804	00:00,2
Iterative deepening search		29.0	281488	25	812924	00:01,2
Greedy best first search	Tiles distance to final position	29.0	170	29	569	00:00,1
	Tiles out of place	33.0	133	23	444	00:00,4
	Tiles distance to final position diagonally	29.0	170	29	569	00:00,3
A* search	**Tiles distance to final position**	**29.0**	**170**	**34**	**564**	**00:00,1**
	Tiles out of place	29.0	176	24	582	00:00,3
	Tiles distance to final position diagonally	29.0	172	31	570	00:00,2
IDA* search	Tiles distance to final position	29.0	14280	48	49558	00:00,1
	Tiles out of place	29.0	8618	34	28841	00:00,5
	Tiles distance to final position diagonally	29.0	38384	41	127483	00:00,2

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		33.0	88	6	283	00:00,7
Uniform cost search		33.0	89	6	286	00:00,9
Depth first search		39.0	64	14	211	00:00,6
Iterative deepening search		33.0	6082	13	17876	00:00,6
Greedy best first search	Tiles distance to final position	37.0	88	7	282	00:00,5
	Tiles out of place	**33.0**	**71**	**12**	**231**	**00:00,2**
	Tiles distance to final position diagonally	37.0	88	7	282	00:00,2
A* search	Tiles distance to final position	33.0	88	7	282	00:00,6
	Tiles out of place	33.0	89	6	286	00:00,1
	Tiles distance to final position diagonally	33.0	89	6	285	00:00,2
IDA* search	Tiles distance to final position	33.0	2807	8	9097	00:00,2
	Tiles out of place	33.0	3009	11	9582	00:00,3
	Tiles distance to final position diagonally	33.0	17745	13	56083	00:00,1

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		34.0	240	17	712	00:00,2
Uniform cost search		34.0	239	18	709	00:00,1
Depth first search		37.0	152	23	459	00:00,4
Iterative deepening search		34.0	90011	23	230670	00:00,4
Greedy best first search	Tiles distance to final position	34.0	124	32	388	00:00,4
	Tiles out of place	34.0	234	21	694	00:00,2
	Tiles distance to final position diagonally	**34.0**	**124**	**32**	**388**	**00:00,2**
A* search	Tiles distance to final position	34.0	230	20	685	00:00,3
	Tiles out of place	34.0	239	18	709	00:00,9
	Tiles distance to final position diagonally	34.0	238	17	706	00:00,2
IDA* search	Tiles distance to final position	34.0	7076	28	20770	00:00,1
	Tiles out of place	34.0	11384	47	32966	00:00,1
	Tiles distance to final position diagonally	34.0	53206	48	153671	00:00,3

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		35.0	327	26	1059	00:00,4
Uniform cost search		35.0	327	29	1059	00:00,2
Depth first search		36.0	44344	33	128221	00:00,2
Iterative deepening search		35.0	31082052	36	73753224	01:35,0
Greedy best first search	Tiles distance to final position	39.0	292	21	962	00:00,4
	Tiles out of place	**35.0**	**269**	**29**	**857**	**00:00,2**
	Tiles distance to final position diagonally	39.0	292	21	962	00:00,6
A* search	Tiles distance to final position	35.0	324	22	1053	00:00,2
	Tiles out of place	35.0	327	29	1059	00:00,1
	Tiles distance to final position diagonally	35.0	327	25	1059	00:00,4
IDA* search	Tiles distance to final position	35.0	30186	48	98725	00:00,2
	Tiles out of place	35.0	44186	135	142279	00:00,3
	Tiles distance to final position diagonally	35.0	245488	122	798160	00:01,1

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		37.0	241	25	770	00:00,5
Uniform cost search		37.0	240	28	767	00:00,3
Depth first search		41.0	255	21	806	00:00,2
Iterative deepening search		37.0	213499	22	638806	00:01,9
Greedy best first search	Tiles distance to final position	39.0	176	25	577	00:00,8
	Tiles out of place	41.0	164	19	526	00:00,6
	Tiles distance to final position diagonally	39.0	176	25	577	00:00,8
A* search	**Tiles distance to final position**	**37.0**	**235**	**28**	**753**	**00:00,4**
	Tiles out of place	37.0	240	28	767	00:00,1
	Tiles distance to final position diagonally	37.0	236	27	752	00:00,7
IDA* search	Tiles distance to final position	37.0	12276	36	43908	00:00,1
	Tiles out of place	37.0	14773	34	48274	00:01,0
	Tiles distance to final position diagonally	37.0	53044	35	179403	00:00,3

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		37.0	477	38	1570	00:00,5
Uniform cost search		37.0	475	39	1565	00:00,7
Depth first search		39.0	20476339	40	56052316	01:10,2
Iterative deepening search		37.0	97474162	38	236110772	04:49,7
Greedy best first search	Tiles distance to final position	43.0	471	38	1553	00:00,2
	Tiles out of place	**37.0**	**439**	**39**	**1435**	**00:00,2**
	Tiles distance to final position diagonally	43.0	471	38	1553	00:00,1
A* search	Tiles distance to final position	37.0	471	36	1551	00:00,2
	Tiles out of place	37.0	475	39	1565	00:00,7
	Tiles distance to final position diagonally	37.0	468	49	1542	00:00,4
IDA* search	Tiles distance to final position	37.0	186192	105	633084	00:00,8
	Tiles out of place	37.0	47779	146	154219	00:00,2
	Tiles distance to final position diagonally	37.0	406722	141	1335172	00:01,7

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		34.0	305	25	971	00:00,4
Uniform cost search		34.0	303	25	966	00:00,2
Depth first search		47.0	77	22	256	00:00,1
Iterative deepening search		34.0	134279	18	399028	00:00,5
Greedy best first search	Tiles distance to final position	37.0	245	21	798	00:00,1
	Tiles out of place	43.0	144	22	466	00:00,4
	Tiles distance to final position diagonally	37.0	245	21	798	00:00,3
A* search	**Tiles distance to final position**	**34.0**	**273**	**17**	**871**	**00:00,1**
	Tiles out of place	34.0	303	25	966	00:00,4
	Tiles distance to final position diagonally	34.0	289	23	923	00:00,9
IDA* search	Tiles distance to final position	34.0	13267	23	43007	00:00,7
	Tiles out of place	34.0	14793	38	48315	00:00,8
	Tiles distance to final position diagonally	34.0	79342	27	256754	00:00,3

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		37.0	184	11	551	00:00,4
Uniform cost search		37.0	184	11	551	00:00,3
Depth first search		49.0	115	16	357	00:00,2
Iterative deepening search		37.0	19727	17	54586	00:00,8
Greedy best first search	Tiles distance to final position	37.0	177	13	531	00:00,8
	Tiles out of place	47.0	120	19	368	00:00,4
	Tiles distance to final position diagonally	**37.0**	**177**	**13**	**531**	**00:00,3**
A* search	Tiles distance to final position	37.0	184	16	551	00:00,2
	Tiles out of place	37.0	184	11	551	00:00,2
	Tiles distance to final position diagonally	37.0	184	12	551	00:00,2
IDA* search	Tiles distance to final position	37.0	9691	24	29666	00:00,6
	Tiles out of place	37.0	5066	14	15154	00:00,4
	Tiles distance to final position diagonally	37.0	31412	17	94567	00:00,1

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		32.0	63	5	195	00:00,1
Uniform cost search		32.0	61	5	190	00:00,1
Depth first search		**32.0**	**42**	**16**	**138**	**00:00,4**
Iterative deepening search		32.0	2559	15	7007	00:00,2
Greedy best first search	Tiles distance to final position	50.0	79	6	245	00:00,3
	Tiles out of place	32.0	75	7	234	00:00,2
	Tiles distance to final position diagonally	50.0	79	6	245	00:00,2
A* search	Tiles distance to final position	32.0	61	5	191	00:00,2
	Tiles out of place	32.0	61	5	190	00:00,1
	Tiles distance to final position diagonally	32.0	60	5	187	00:00,1
IDA* search	Tiles distance to final position	32.0	1036	5	3101	00:00,1
	Tiles out of place	32.0	1141	5	3480	00:00,8
	Tiles distance to final position diagonally	32.0	3564	4	10594	00:00,2

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		18.0	161	16	452	00:00,1
Uniform cost search		18.0	166	15	465	00:00,9
Depth first search		37.0	531	22	1381	00:00,5
Iterative deepening search		18.0	105803	15	234570	00:00,3
Greedy best first search	Tiles distance to final position	18.0	99	15	283	00:00,6
	Tiles out of place	24.0	120	23	335	00:00,1
	Tiles distance to final position diagonally	**18.0**	**99**	**15**	**283**	**00:00,1**
A* search	Tiles distance to final position	18.0	119	16	347	00:00,6
	Tiles out of place	18.0	166	15	465	00:00,2
	Tiles distance to final position diagonally	18.0	143	15	405	00:00,1
IDA* search	Tiles distance to final position	18.0	1866	21	5621	00:00,2
	Tiles out of place	18.0	3361	55	9786	00:00,2
	Tiles distance to final position diagonally	18.0	10084	36	29724	00:00,5

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		16.0	371	48	1134	00:00,6
Uniform cost search		16.0	370	46	1126	00:00,1
Depth first search		34.0	627	27	1603	00:00,6
Iterative deepening search		16.0	359213	28	721260	00:00,9
Greedy best first search	Tiles distance to final position	26.0	239	31	726	00:00,5
	Tiles out of place	46.0	140	47	426	00:00,3
	Tiles distance to final position diagonally	26.0	239	31	726	00:00,4
A* search	Tiles distance to final position	18.0	221	37	677	00:00,4
	Tiles out of place	16.0	370	46	1126	00:00,4
	Tiles distance to final position diagonally	**16.0**	**274**	**43**	**832**	**00:00,4**
IDA* search	Tiles distance to final position	18.0	5814	51	16728	00:00,4
	Tiles out of place	16.0	5513	191	17233	00:00,3
	Tiles distance to final position diagonally	16.0	15178	102	46689	00:00,8

Method		Cost	Explored	Frontier Size	Generated	Time
Breadth first search		39.0	214	10	655	00:00,1
Uniform cost search		39.0	210	11	645	00:00,7
Depth first search		43.0	61	16	196	00:00,2
Iterative deepening search		39.0	46508	15	131996	00:00,2
Greedy best first search	Tiles distance to final position	41.0	157	18	494	00:00,5
	Tiles out of place	**39.0**	**112**	**16**	**347**	**00:00,2**
	Tiles distance to final position diagonally	41.0	157	18	494	00:00,1
A* search	Tiles distance to final position	39.0	200	13	618	00:00,4
	Tiles out of place	39.0	210	11	645	00:00,6
	Tiles distance to final position diagonally	39.0	206	13	636	00:00,4
IDA* search	Tiles distance to final position	39.0	8135	14	25841	00:00,5
	Tiles out of place	39.0	8305	25	25721	00:00,5
	Tiles distance to final position diagonally	39.0	30979	19	97370	00:00,1