

[illegible]

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	0	1	2	3	4	5	6	7	8
0									
1		T			C2				
2				C1	S	C4			
3					C3				
4									
5									
6									
7									
8									

		TX	TY	SX	SY		X2	Y2	D2
S = (4, 2)	C								

Left of S	1	1	1	3	2		2	1	5
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Shortest Distance To T is C1 so S should move to C1 (3, 2)

Up of S	2	1	1	4	1		3	0	9
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Down of S	3	1	1	4	3		3	2	13
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Right of S	4	1	1	5	2		4	1	17
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	0	21	3	17			3	4	25
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	0	0	8	0			8	0	64
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	-3	7	1	2			4	5	41
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Calculate the positive difference between the y-coordinates and call this number Y.

The y-coordinates are the second numbers in each set of coordinates.

For example, if the two points have coordinates (-3, 7) and (1, 2), then the difference between 7 and 2 is 5, and so Y = 5.

Use the formula $D2 = X2 + Y2$ to find the squared distance between two points.

For example, if X = 4 and Y = 5, then $D2 = 42 + 52 = 41$. Thus, the square of the distance between the coordinates is 41.

Phil Bell

08 March 2020

Calls Per Second	Speed	Time Per Frame	Speed %	Time Per Frame	LEVEL	PAC-MAN SPEED				GHOST SPEED			
100%	100%	Time Per Frame	80	80	LEVEL	NORM	NORM DOTS	FRIGHT	FRIGHT DOTS	NORM	FRIGHT	TUNNEL	
1	1	0.0166666667	0.8	1.25	0.0208333333	1	80%	71%	90%	79%	75%	50%	40%
1.15	0.869552174	0.01449275362	0.92	1.089595222	0.01811594203	2 - 4	90%	79%	95%	83%	85%	55%	45%
1.2	0.8333333333	0.0138888889	0.96	1.041666667	0.01736111111	5 - 20	100%	87%	100%	87%	95%	60%	50%
1.25	0.8	0.0133333333	1	1	0.0166666667	21+	90%	79%	N/A	N/A	95%	N/A	50%
1.3	0.7692307692	0.01282051282	1.04	0.9615384615	0.01602564103								
1.35	0.7407407407	0.01234567901	1.08	0.9259259259	0.01543200877								
1.4	0.7142857143	0.0119047619	1.12	0.8925871429	0.01488095238	Phases							
1.45	0.6895951724	0.01149425287	1.16	0.8620899655	0.01436781609	Mode	Level 1	Levels 2-4	Levels 5+	LEVEL			
1.5	0.6666666667	0.01111111111	1.2	0.8333333333	0.01388888889	1	Scatter	7	7	5	80%	71%	90%
1.55	0.6451612903	0.0107562897	1.24	0.8064516129	0.01344080222	2	Chase	7	20	20	2 - 4	90%	79%
1.6	0.625	0.0104166667	1.28	0.77125	0.01302083333	3	Scatter	7	7	5	5 - 20	100%	87%
1.65	0.6060606061	0.0101010101	1.32	0.7575757576	0.01262626263	4	Chase	20	20	20	21+	90%	79%
1.7	0.5882352941	0.009803921569	1.36	0.735294176	0.01225490196	5	Scatter	5	5	5		N/A	N/A
1.75	0.5714285714	0.009523809524	1.4	0.7142857143	0.0119047619	6	Chase	20	1033	1037			
1.8	0.5555555556	0.009259259259	1.44	0.6944444444	0.01157407407	7	Scatter	5	1/60	1/60			
1.85	0.5405405405	0.009000900909	1.48	0.6756756757	0.01126126126	8	Chase	indefinite	indefinite	indefinite			
1.9	0.5263157895	0.008771929825	1.52	0.6578947368	0.01096491228								
1.95	0.5128205128	0.008547008547	1.56	0.641025641	0.01068376068	Level	Bonus	Points	ASCII				
2	0.5	0.008333333333	1.6	0.625	0.0104166667	1	Cherries	100	C				
2.05	0.487804878	0.008130081301	1.64	0.6097560976	0.01016260162	2	Strawberry	300	S				
2.1	0.4719504762	0.0079350057937	1.68	0.5952380952	0.009920634921	3	Peach 1	500	P				
2.15	0.4651162781	0.007761937894	1.72	0.5813953488	0.009689224801	4	Peach 2	500	P				
2.2	0.4545454545	0.007575757576	1.76	0.5681818182	0.009466969697	5	Apple 1	700	A				
2.25	0.4444444444	0.007407407407	1.8	0.5555555556	0.009259259259	6	Apple 2	700	A				
2.3	0.4347826087	0.007246376812	1.84	0.5434782609	0.009057971014	7	Grapes 1	1000	R				
2.35	0.4255319149	0.007092198582	1.88	0.5319148936	0.008865248227	8	Grapes 2	1000	R				
2.4	0.4166666667	0.006944444444	1.92	0.5208333333	0.008680555556	9	Galaxian 1	2000	G				
2.45	0.4081632653	0.006802721088	1.96	0.5102040816	0.008504213661	10	Galaxian 2	2000	G				
2.5	0.4	0.006666666667	2	0.5	0.008333333333	11	Bell 1	3000	B				
2.55	0.3921568627	0.006535947712	2.04	0.4901960784	0.008169934641	12	Bell 2	3000	B				
2.6	0.3846153846	0.00641025641	2.08	0.4807692308	0.008012820513	13+	Key 1	5000	K				
2.65	0.3773584906	0.006289308176	2.12	0.4716981132	0.00786163522								
2.7	0.3703703704	0.006172839056	2.16	0.462952963	0.007716045393	Fruit is 2 per level, First after 70 dots second after 170							
2.75	0.3636363636	0.006060606061	2.2	0.4545454545	0.0075757576	Fruit appears under the ghost house							
2.8	0.3571428571	0.005952380952	2.24	0.4464285714	0.00744047619								
2.85	0.350877193	0.005847953216	2.28	0.4385964912	0.00730994152								
2.9	0.3448275862	0.005747126437	2.32	0.4310344828	0.00718398046								
2.95	0.3389835058	0.005649717514	2.36	0.4237288136	0.007062146893								
3	0.3333333333	0.005555555556	2.4	0.4166666667	0.006944444444								