

Rules:

IF x_1 is short AND x_2 is long AND x_3 is short AND x_4 is short THEN $y = g_1$

IF x_1 is medium AND x_2 is small AND x_3 is medium AND x_4 is medium THEN $y = g_2$

IF x_1 is long AND x_2 is medium AND x_3 is long AND x_4 is long THEN $y = g_3$

		Center	W	
x_1	4.2 – 5.9	5	0.85	Short
	5.1 – 6.8	5.9	0.85	Medium
	6.7 – 7.6	6.6	0.45	Long
x_2	1.7 – 3.8	2.6	1.05	Short
	2.0 – 4.0	3	1	Medium
	2.4 – 4.4	3.5	1	Long
x_3	1.0 – 2.0	1.5	0.5	Short
	3.8 – 4.8	4.3	0.5	Medium
	5.0 – 6.1	5.5	0.55	Long
x_4	-0.6 – 1.2	0.25	0.9	Short
	0.4 – 2.3	1.4	0.95	Medium
	1.1 – 3.0	2	0.95	Long

$$A = \begin{vmatrix} -0.0000 & 0.0000 & -0.0001 & 0.875 \\ -0.1121 & -0.2234 & 0.0029 & 0.875 \\ -0.1020 & -0.0624 & 0.1276 & 0.875 \end{vmatrix}$$

$$B = \begin{vmatrix} 0.6667 \\ 1.7547 \\ 1.8412 \end{vmatrix}$$

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x1=5.1, x2=3.5, x3=1.4, x4=0.2, g=Iris-setosa 0,84156 TRUE
x1=4.9, x2=3.0, x3=1.4, x4=0.2, g=Iris-setosa 0,84156 TRUE
x1=4.7, x2=3.2, x3=1.3, x4=0.2, g=Iris-setosa 0,84157 TRUE
x1=4.6, x2=3.1, x3=1.5, x4=0.2, g=Iris-setosa 0,84155 TRUE
x1=5.0, x2=3.6, x3=1.4, x4=0.2, g=Iris-setosa 0,84156 TRUE
x1=5.4, x2=3.9, x3=1.7, x4=0.4, g=Iris-setosa 1,01653 TRUE
x1=4.6, x2=3.4, x3=1.4, x4=0.3, g=Iris-setosa 0,92906 TRUE
x1=5.0, x2=3.4, x3=1.5, x4=0.2, g=Iris-setosa 0,84155 TRUE
x1=4.4, x2=2.9, x3=1.4, x4=0.2, g=Iris-setosa 0,84156 TRUE
x1=4.9, x2=3.1, x3=1.5, x4=0.1, g=Iris-setosa 0,75405 TRUE
x1=5.4, x2=3.7, x3=1.5, x4=0.2, g=Iris-setosa 0,84155 TRUE
x1=4.8, x2=3.4, x3=1.6, x4=0.2, g=Iris-setosa 0,84154 TRUE
x1=4.8, x2=3.0, x3=1.4, x4=0.1, g=Iris-setosa 0,75406 TRUE
x1=4.3, x2=3.0, x3=1.1, x4=0.1, g=Iris-setosa 0,75409 TRUE
x1=5.8, x2=4.0, x3=1.2, x4=0.2, g=Iris-setosa 0,84158 TRUE
x1=5.7, x2=4.4, x3=1.5, x4=0.4, g=Iris-setosa 1,01655 TRUE

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x1=5.4, x2=3.9, x3=1.3, x4=0.4, g=Iris-setosa	1,01657	TRUE
x1=5.1, x2=3.5, x3=1.4, x4=0.3, g=Iris-setosa	0,92906	TRUE
x1=5.7, x2=3.8, x3=1.7, x4=0.3, g=Iris-setosa	0,92903	TRUE
x1=5.1, x2=3.8, x3=1.5, x4=0.3, g=Iris-setosa	0,92905	TRUE
x1=5.4, x2=3.4, x3=1.7, x4=0.2, g=Iris-setosa	0,84153	TRUE
x1=5.1, x2=3.7, x3=1.5, x4=0.4, g=Iris-setosa	1,01653	TRUE
x1=4.6, x2=3.6, x3=1.0, x4=0.2, g=Iris-setosa	0,84160	TRUE
x1=5.1, x2=3.3, x3=1.7, x4=0.5, g=Iris-setosa	1,10400	TRUE
x1=4.8, x2=3.4, x3=1.9, x4=0.2, g=Iris-setosa	0,84151	TRUE
x1=5.0, x2=3.0, x3=1.6, x4=0.2, g=Iris-setosa	0,84154	TRUE
x1=5.0, x2=3.4, x3=1.6, x4=0.4, g=Iris-setosa	1,01654	TRUE
x1=5.2, x2=3.5, x3=1.5, x4=0.2, g=Iris-setosa	0,84155	TRUE
x1=5.2, x2=3.4, x3=1.4, x4=0.2, g=Iris-setosa	0,84156	TRUE
x1=4.7, x2=3.2, x3=1.6, x4=0.2, g=Iris-setosa	0,84154	TRUE
x1=4.8, x2=3.1, x3=1.6, x4=0.2, g=Iris-setosa	0,84154	TRUE
x1=5.4, x2=3.4, x3=1.5, x4=0.4, g=Iris-setosa	1,01650	TRUE
x1=5.2, x2=4.1, x3=1.5, x4=0.1, g=Iris-setosa	0,75405	TRUE
x1=5.5, x2=4.2, x3=1.4, x4=0.2, g=Iris-setosa	0,84156	TRUE
x1=4.9, x2=3.1, x3=1.5, x4=0.1, g=Iris-setosa	0,75405	TRUE
x1=5.0, x2=3.2, x3=1.2, x4=0.2, g=Iris-setosa	0,84158	TRUE
x1=5.5, x2=3.5, x3=1.3, x4=0.2, g=Iris-setosa	0,84157	TRUE
x1=4.9, x2=3.1, x3=1.5, x4=0.1, g=Iris-setosa	0,75405	TRUE
x1=4.4, x2=3.0, x3=1.3, x4=0.2, g=Iris-setosa	0,84157	TRUE
x1=5.1, x2=3.4, x3=1.5, x4=0.2, g=Iris-setosa	0,84155	TRUE
x1=5.0, x2=3.5, x3=1.3, x4=0.3, g=Iris-setosa	0,92907	TRUE
x1=4.5, x2=2.3, x3=1.3, x4=0.3, g=Iris-setosa	0,92907	TRUE
x1=4.4, x2=3.2, x3=1.3, x4=0.2, g=Iris-setosa	0,84157	TRUE
x1=5.0, x2=3.5, x3=1.6, x4=0.6, g=Iris-setosa	1,19154	TRUE
x1=5.1, x2=3.8, x3=1.9, x4=0.4, g=Iris-setosa	1,01648	TRUE
x1=4.8, x2=3.0, x3=1.4, x4=0.3, g=Iris-setosa	0,92906	TRUE
x1=5.1, x2=3.8, x3=1.6, x4=0.2, g=Iris-setosa	0,84154	TRUE
x1=4.6, x2=3.2, x3=1.4, x4=0.2, g=Iris-setosa	0,84156	TRUE
x1=5.3, x2=3.7, x3=1.5, x4=0.2, g=Iris-setosa	0,84155	TRUE
x1=5.0, x2=3.3, x3=1.4, x4=0.2, g=Iris-setosa	0,84156	TRUE
x1=7.0, x2=3.2, x3=4.7, x4=1.4, g=Iris-versicolor	2,21858	TRUE
x1=6.4, x2=3.2, x3=4.5, x4=1.5, g=Iris-versicolor	1,64793	TRUE
x1=6.9, x2=3.1, x3=4.9, x4=1.5, g=Iris-versicolor	2,88019	FALSE
x1=5.5, x2=2.3, x3=4.0, x4=1.3, g=Iris-versicolor	1,77343	TRUE
x1=6.5, x2=2.8, x3=4.6, x4=1.5, g=Iris-versicolor	1,72637	TRUE
x1=5.7, x2=2.8, x3=4.5, x4=1.3, g=Iris-versicolor	1,64076	TRUE
x1=6.3, x2=3.3, x3=4.7, x4=1.6, g=Iris-versicolor	1,72488	TRUE
x1=4.9, x2=2.4, x3=3.3, x4=1.0, g=Iris-versicolor	1,54144	TRUE
x1=6.6, x2=2.9, x3=4.6, x4=1.3, g=Iris-versicolor	1,51782	TRUE
x1=5.2, x2=2.7, x3=3.9, x4=1.4, g=Iris-versicolor	1,80491	TRUE
x1=5.0, x2=2.0, x3=3.5, x4=1.0, g=Iris-versicolor	1,59160	TRUE
x1=5.9, x2=3.0, x3=4.2, x4=1.5, g=Iris-versicolor	1,74779	TRUE
x1=6.0, x2=2.2, x3=4.0, x4=1.0, g=Iris-versicolor	1,47722	FALSE
x1=6.1, x2=2.9, x3=4.7, x4=1.4, g=Iris-versicolor	1,66166	TRUE
x1=5.6, x2=2.9, x3=3.6, x4=1.3, g=Iris-versicolor	1,62787	TRUE
x1=6.7, x2=3.1, x3=4.4, x4=1.4, g=Iris-versicolor	1,55134	TRUE
x1=5.6, x2=3.0, x3=4.5, x4=1.5, g=Iris-versicolor	1,78229	TRUE
x1=5.8, x2=2.7, x3=4.1, x4=1.0, g=Iris-versicolor	1,38825	FALSE
x1=6.2, x2=2.2, x3=4.5, x4=1.5, g=Iris-versicolor	1,89375	TRUE
x1=5.6, x2=2.5, x3=3.9, x4=1.1, g=Iris-versicolor	1,54227	TRUE
x1=5.9, x2=3.2, x3=4.8, x4=1.8, g=Iris-versicolor	1,96736	TRUE
x1=6.1, x2=2.8, x3=4.0, x4=1.3, g=Iris-versicolor	1,59447	TRUE
x1=6.3, x2=2.5, x3=4.9, x4=1.5, g=Iris-versicolor	1,81755	TRUE
x1=6.1, x2=2.8, x3=4.7, x4=1.2, g=Iris-versicolor	1,50900	TRUE
x1=6.4, x2=2.9, x3=4.3, x4=1.3, g=Iris-versicolor	1,53937	TRUE
x1=6.6, x2=3.0, x3=4.4, x4=1.4, g=Iris-versicolor	1,58240	TRUE
x1=6.8, x2=2.8, x3=4.8, x4=1.4, g=Iris-versicolor	1,61214	TRUE
x1=6.7, x2=3.0, x3=5.0, x4=1.7, g=Iris-versicolor	3,09506	FALSE
x1=6.0, x2=2.9, x3=4.5, x4=1.5, g=Iris-versicolor	1,75979	TRUE
x1=5.7, x2=2.6, x3=3.5, x4=1.0, g=Iris-versicolor	1,43515	FALSE
x1=5.5, x2=2.4, x3=3.8, x4=1.1, g=Iris-versicolor	1,57553	TRUE
x1=5.5, x2=2.4, x3=3.7, x4=1.0, g=Iris-versicolor	1,49523	FALSE
x1=5.8, x2=2.7, x3=3.9, x4=1.2, g=Iris-versicolor	1,56267	TRUE
x1=6.0, x2=2.7, x3=5.1, x4=1.6, g=Iris-versicolor	2,29000	TRUE
x1=5.4, x2=3.0, x3=4.5, x4=1.5, g=Iris-versicolor	1,80471	TRUE
x1=6.0, x2=3.4, x3=4.5, x4=1.6, g=Iris-versicolor	1,73559	TRUE
x1=6.7, x2=3.1, x3=4.7, x4=1.5, g=Iris-versicolor	1,64255	TRUE

x1=6.3, x2=2.3, x3=4.4, x4=1.3, g=Iris-versicolor	1,68491	TRUE
x1=5.6, x2=3.0, x3=4.1, x4=1.3, g=Iris-versicolor	1,60613	TRUE
x1=5.5, x2=2.5, x3=4.0, x4=1.3, g=Iris-versicolor	1,72875	TRUE
x1=5.5, x2=2.6, x3=4.4, x4=1.2, g=Iris-versicolor	1,62008	TRUE
x1=6.1, x2=3.0, x3=4.6, x4=1.4, g=Iris-versicolor	1,63903	TRUE
x1=5.8, x2=2.6, x3=4.0, x4=1.2, g=Iris-versicolor	1,58529	TRUE
x1=5.0, x2=2.3, x3=3.3, x4=1.0, g=Iris-versicolor	1,55613	TRUE
x1=5.6, x2=2.7, x3=4.2, x4=1.3, g=Iris-versicolor	1,67344	TRUE
x1=5.7, x2=3.0, x3=4.2, x4=1.2, g=Iris-versicolor	1,50775	TRUE
x1=5.7, x2=2.9, x3=4.2, x4=1.3, g=Iris-versicolor	1,61755	TRUE
x1=6.2, x2=2.9, x3=4.3, x4=1.3, g=Iris-versicolor	1,56179	TRUE
x1=5.1, x2=2.5, x3=3.0, x4=1.1, g=Iris-versicolor	1,60577	TRUE
x1=5.7, x2=2.8, x3=4.1, x4=1.3, g=Iris-versicolor	1,63960	TRUE
x1=6.3, x2=3.3, x3=6.0, x4=2.5, g=Iris-virginica	3,94336	TRUE
x1=5.8, x2=2.7, x3=5.1, x4=1.9, g=Iris-virginica	2,68702	TRUE
x1=7.1, x2=3.0, x3=5.9, x4=2.1, g=Iris-virginica	3,52014	TRUE
x1=6.3, x2=2.9, x3=5.6, x4=1.8, g=Iris-virginica	2,77712	TRUE
x1=6.5, x2=3.0, x3=5.8, x4=2.2, g=Iris-virginica	3,29360	TRUE
x1=7.6, x2=3.0, x3=6.6, x4=2.1, g=Iris-virginica	3,55548	TRUE
x1=4.9, x2=2.5, x3=4.5, x4=1.7, g=Iris-virginica	2,14848	FALSE
x1=7.3, x2=2.9, x3=6.3, x4=1.8, g=Iris-virginica	3,29225	TRUE
x1=6.7, x2=2.5, x3=5.8, x4=1.8, g=Iris-virginica	3,31608	TRUE
x1=7.2, x2=3.6, x3=6.1, x4=2.5, g=Iris-virginica	3,84802	TRUE
x1=6.5, x2=3.2, x3=5.1, x4=2.0, g=Iris-virginica	2,93365	TRUE
x1=6.4, x2=2.7, x3=5.3, x4=1.9, g=Iris-virginica	2,85800	TRUE
x1=6.8, x2=3.0, x3=5.5, x4=2.1, g=Iris-virginica	3,49947	TRUE
x1=5.7, x2=2.5, x3=5.0, x4=2.0, g=Iris-virginica	2,73277	TRUE
x1=5.8, x2=2.8, x3=5.1, x4=2.4, g=Iris-virginica	3,82261	TRUE
x1=6.4, x2=3.2, x3=5.3, x4=2.3, g=Iris-virginica	3,39283	TRUE
x1=6.5, x2=3.0, x3=5.5, x4=1.8, g=Iris-virginica	2,85155	TRUE
x1=7.7, x2=3.8, x3=6.7, x4=2.2, g=Iris-virginica	3,26082	TRUE
x1=7.7, x2=2.6, x3=6.9, x4=2.3, g=Iris-virginica	3,28725	TRUE
x1=6.0, x2=2.2, x3=5.0, x4=1.5, g=Iris-virginica	2,11078	FALSE
x1=6.9, x2=3.2, x3=5.7, x4=2.3, g=Iris-virginica	3,67754	TRUE
x1=5.6, x2=2.8, x3=4.9, x4=2.0, g=Iris-virginica	2,26775	FALSE
x1=7.7, x2=2.8, x3=6.7, x4=2.0, g=Iris-virginica	2,90200	TRUE
x1=6.3, x2=2.7, x3=4.9, x4=1.8, g=Iris-virginica	2,03607	FALSE
x1=6.7, x2=3.3, x3=5.7, x4=2.1, g=Iris-virginica	3,51643	TRUE
x1=7.2, x2=3.2, x3=6.0, x4=1.8, g=Iris-virginica	3,24772	TRUE
x1=6.2, x2=2.8, x3=4.8, x4=1.8, g=Iris-virginica	2,02308	FALSE
x1=6.1, x2=3.0, x3=4.9, x4=1.8, g=Iris-virginica	1,99163	FALSE
x1=6.4, x2=2.8, x3=5.6, x4=2.1, g=Iris-virginica	3,17397	TRUE
x1=7.2, x2=3.0, x3=5.8, x4=1.6, g=Iris-virginica	3,05968	TRUE
x1=7.4, x2=2.8, x3=6.1, x4=1.9, g=Iris-virginica	3,35253	TRUE
x1=7.9, x2=3.8, x3=6.4, x4=2.0, g=Iris-virginica	2,96016	TRUE
x1=6.4, x2=2.8, x3=5.6, x4=2.2, g=Iris-virginica	3,29688	TRUE
x1=6.3, x2=2.8, x3=5.1, x4=1.5, g=Iris-virginica	2,19502	FALSE
x1=6.1, x2=2.6, x3=5.6, x4=1.4, g=Iris-virginica	2,19806	FALSE
x1=7.7, x2=3.0, x3=6.1, x4=2.3, g=Iris-virginica	3,65766	TRUE
x1=6.3, x2=3.4, x3=5.6, x4=2.4, g=Iris-virginica	3,80009	TRUE
x1=6.4, x2=3.1, x3=5.5, x4=1.8, g=Iris-virginica	2,82717	TRUE
x1=6.0, x2=3.0, x3=4.8, x4=1.8, g=Iris-virginica	2,00082	FALSE
x1=6.9, x2=3.1, x3=5.4, x4=2.1, g=Iris-virginica	3,47050	TRUE
x1=6.7, x2=3.1, x3=5.6, x4=2.4, g=Iris-virginica	3,77892	TRUE
x1=6.9, x2=3.1, x3=5.1, x4=2.3, g=Iris-virginica	3,60722	TRUE
x1=5.8, x2=2.7, x3=5.1, x4=1.9, g=Iris-virginica	2,68702	TRUE
x1=6.8, x2=3.2, x3=5.9, x4=2.3, g=Iris-virginica	3,71298	TRUE
x1=6.7, x2=3.3, x3=5.7, x4=2.5, g=Iris-virginica	3,86670	TRUE
x1=6.7, x2=3.0, x3=5.2, x4=2.3, g=Iris-virginica	3,64634	TRUE
x1=6.3, x2=2.5, x3=5.0, x4=1.9, g=Iris-virginica	2,58912	TRUE
x1=6.5, x2=3.0, x3=5.2, x4=2.0, g=Iris-virginica	2,99125	TRUE
x1=6.2, x2=3.4, x3=5.4, x4=2.3, g=Iris-virginica	3,40705	TRUE
x1=5.9, x2=3.0, x3=5.1, x4=1.8, g=Iris-virginica	2,56645	TRUE

Total TRUE = 90%

Total FALSE = 10%