Table 1: measurement for one sonar sensor in different conditions

Sonar Servo degree	Obstacle straigh ahead		Obstacle 45 degree on the right side of robot	90 degree Corner Straight ahead	90 degree corner 45 degree right side of robot	Wall straight ahead		Wall 45 degree on the right side of robot	Steep Corner straight ahead	Steep corner 4 degree on the right side of ro	
0	2	00	350-138-143	400	349-173-160		122	77-75-538	109		588
18	1	80	36	270	256-254	104-151-100		30	129		254
36	1	56	37	128	241-79-94	97-105-102		29-30	119	118-194-253	
54	27-29-30		38	250-94	299-184-179		32	30-29	47-90-47-526-83	533-362	
72	27-74-407-272		37	36-278-120	39-40		31	30	310-354-265-361	184-340	
90		27	203-67-62	194-147-218	295-114		29	241-210	178-135-218-142	141-187	
108		27		128-531-29		29-30		331-257	387-534-408	281-117-299	
126	105-117			60-107-70		81-126		113-182	109-122	102-105-108	
144	1	05		494-133-161			165		126		
162	1	11		128			156		150		
180				112			200		170		

Critical decision making contains are high lighted as red.

Chaotic decision making is high lighted as green.



