Problem 1:

Initial: Number of attacking Queens: 4

Q	Q	Q	Q

State 1:
Number of attacking Queens: 4
Board Number : 344

Q			
	Q	Q	Q

State 2:
Number of attacking Queens: 2
Board Number : 392

	Q		
Q			
		Q	Q

State 3:
Number of attacking Queens: 0
Board Number : 904

	Q		
			Q
Q			
		Q	

Problem 2:

Board Number : 448

Q			
	Q		
		Q	
			Q

Problem 3:

Board 1:
Number of attacking Queens: 4

Q	Q	Q	Q

Child 1:
Number of attacking Queens: 4
Board Number : 344

Q			
	Q	Q	Q

Child 2:
Number of attacking Queens: 4
Board Number : 348

Q			
	Q	Q	Q

Board 2:
Number of attacking Queens: 4

Q			
	Q		
		Q	
			Q

Child 1:
Number of attacking Queens: 4
Board Number : 436

	Q		
		Q	
Q			Q

Child 2:
Number of attacking Queens: 4
Board Number : 440

	Q		
Q		Q	
			Q

After Selecting best children. We are left with :

New Board 1:
Number of attacking Queens: 4

Q			
	Q	Q	Q

Child 1:
Number of attacking Queens: 3
Board Number : 388

	Q		
Q		Q	Q

Child 2:
Number of attacking Queens: 3
Board Number : 472

		Q	
Q			
	Q		Q

New Board 2:
Number of attacking Queens: 4

	Q		
		Q	
Q			Q

Child 1:
Number of attacking Queens: 3
Board Number : 452

	Q		
		Q	
Q			Q

Child 2:
Number of attacking Queens: 4
Board Number : 404

		Q	
Q	Q		Q

Problem 4:
First Round / Initial State
Board 1:
Number of attacking Queens: 4

Q			
	Q	Q	Q

Board 2:
Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Total : 7
Dice Rolls
7,3
Child Pair 1:
Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Number of attacking Queens: 4

Q			
	Q	Q	Q

Cross Over Point : 1
Cross Over Pair:
Number of attacking Queens: 3

Q			Q
	Q		
		Q	

Number of attacking Queens: 4

Q	Q	Q	Q

Second Round:
Number of attacking Queens: 3

Q			Q
	Q		
		Q	

Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Total : 6
Dice Rolls
4,2
Child Pair 2:
Number of attacking Queens: 3
Board Number: 1152

			Q
	Q		
Q		Q	

Number of attacking Queens: 3
Board Number: 1140

Q			Q
	Q		
		Q	

Cross Over Point : 2
Cross Over Pair:
Number of attacking Queens: 3

Q			Q
	Q		
		Q	

Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Third Round:
Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Total : 6
Dice Rolls
2,6
Child Pair 3:
Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Cross Over Point : 3
Cross Over Pair:

Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Number of attacking Queens: 3

			Q
	Q		
Q		Q	

THE END OF THE ASSIGNMENT