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

Board 1:

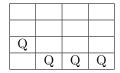
Number of attacking Queens: 4

Q	Q	Q	Q

Child 1:

Number of attacking Queens: 4

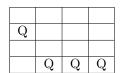
Board Number: 344



Child 2:

Number of attacking Queens: 4

Board Number: 348



Board 2:

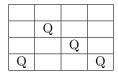
Number of attacking Queens: 4

Q			
	Q		
		Q	
			Q

Child 1:

Number of attacking Queens: 4

Board Number: 436



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:

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

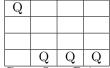
7,3

Child Pair 1:

Number of attacking Queens: 3

			Q
	Q		
Q		Q	

Number of attacking Queens: 4



Cross Over Point: 1 Cross Over Pair:

Number of attacking Queens: 3

Q			Q
	Q		
		Q	

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		
ſ				
ſ			Q	

Cross Over Point : 2 Cross Over Pair:

Number of attacking Queens: 3

Q			Q
	Q		
		Q	

			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:

			Q
	Q		
Q		Q	

Number of attacking Queens: 3

			Q
	Q		
Q		Q	

THE END OF THE ASSIGNMENT