COMP316 ALGORITHM REPORT

MAP 1

	st				
+					
I			• • •		
		XXXX	.X		
I	XX	XXXXXX	.XX.		
		XXXX	.XG.		
		XXXX	.XXXX		
	XX		XXX		
	XXX				
	XXS	XXXXXXX			
- 1	XXXXXX	XXX	X X		
	XXX XXX	XXXXXXX	XX		
	XX	XXXXX	X		
+					
4					
+					
+ 					
+ 		 xxxx xxxxx			
+ 		XXXXXX			
+ 		XXXXX	XX		
+ 		XXXXX	XX XG		
+ 	X	XXXXX	XX XG XXXX.		
+ 	XX XXX	XXXXX	XX XG XXXX. XXX.		
+ 	XX XXX XXS	xxxxx xxxx 	XX XG XXXX. XXX.		
+ 	XX XXX XXS XXXXXX	XXXXXX XXXX XXXX	XX XG XXXX. XXX.		
+ 	XX XXX XXS XXXXXX XXX XXX	XXXXXX XXXX XXXX	XX XG XXXX. XXX. XXXXXXX		
+ 	XX XXX XXS XXXXXX XXX XXX	XXXXXX XXXX 	XX XG XXXX. XXX. XXXXXXX X X		
+ 	XX XXX XXS XXXXXX XXX XXX	XXXXXX XXXX 	XX XG XXXX. XXX. XXXXXXX X X XX		
+ -	XX XXX XXS XXXXXX XXX XXX		XX XG XXXX. XXX. XXXXXXX X X XX		
+ 	XX XXX XXS XXXXXX XXX XXX		XX XG XXXX. XXX. XXXXX XXXXX X X		

MAP 2

```
Best-First
    +----+
                 XXXXX
                 XXXXXXX
                 XXXXXXXX
                  XXXXXXXG.
                     XXXXX....
                    XXXXXXXX.
                   XXXXXXXXXX.
                 XXXXXXXXXXX..
                  XXXXXXX....
               XXXXXXXXXX.
               XXXXXXXXX..
               XXXXXXXXXX.
              XXXXXXXX..
               XXXXXXXX.
              ....X....
             . . .
            .. XXXXX
                XXXXXX
               XXXXXXX
            . XXXXXX
            . XXXXXXX
           SXXXXXXXXX
           XXXXXXXX
           XXXXXXX
        XXXXXXX
         XXXXXX
    Expansions: 47 Cost: 47
```

```
. . . . . . . . .
              .XXXXX ..
             .XXXXXXX ...
              . XXXXXXXXX.
              . XXXXXXXG
                  XXXXX
                 XXXXXXXX
             . XXXXXXXXXXX
             . XXXXXXXXXXXX
             .. XXXXXXX
            .XXXXXXXXXX
           ..XXXXXXXXX
           .XXXXXXXXXX
           .XXXXXXXXX
           . XXXXXXXX
           . X
         .. XXXXX
. XXXXXX
            XXXXXXX
         . XXXXXX
         . XXXXXXX
        SXXXXXXXXX
        XXXXXXXX
        XXXXXXX
     XXXXXXXX
      XXXXXX
Expansions: 561 Cost: 45
```

MAP 3

Best-First +----+ | XXXXXXXXXXXX XXXXXXXXXXXXXX | XXXX XXXX XXXXX XXXXX XXXX XXXX XXXXX XXXX XXXXXG.... XXXX XXXXX. | .XXXX .XXXXXX XXXXXX XXXXX. ...XXXXXXXX XXXXX... XXXX.. ...XXXXX XXXX.. .XXXX...

Expansions: 107 Cost: 50

+					-+		
	XXXXXXXXXXX						
	XXXXXXXXXXXXX						
	XXXX XXXX						
	XXXXX						
	XXXX						
	XXXX						
		XXXXX					
		XXXX		XXXXXG			
	SXXX XXX			XXXXXXXXX			
		.XXXX	XXXX	XXXXX.			
		.XXXXXX	XXXXXX	XXXXX.			
	XXXXXXX			XXXXX			
	XXXXX			XXXX			
		• • •		XXXX			
	.XXXX						
+					-+		

Expansions: 337 Cost: 50

MY MAP

```
Best-First
   +----+
         | XX ..X.. .X....X |
   | XX .X X. ..XX X X XX... |
     XX .X X. . X X X X XXX. |
       X .XXX... XXXXXXXXXX....
       X .XXXXXXXXXXXXXXXX.
      SX . XG......
      .X .XXXXXXXXXXXXXXX
   ...X .XXX XXXXXXXXX
   | ..XX ..X X X X X XXX
   | .XX .. X
             X
   Expansions: 243 Cost: 82
A*
   | XX X X
    XX X X X X X X X
     XX \qquad X \quad X
             X X X X XXX
       X XXX XXXXXXXXX
       X XXXXXXXXXXXXXXXX
      SX XG.....
      .x xxxxxxxxxxxxxxx.
    ...X XXX XXXXXXXXX....
    ..XX X X X X X XXX. |
   X
             X....X
   | ......
   Expansions: 271 Cost: 62
```