

```
1 package main
2
3 import (
4     "strings"
5 )
6
7 func projectFields(fieldString string) [9][9]int {
8     fs := strings.Split(fieldString, ",")
9     fields := [9][9]int{}
10
11     fields[0][0] = getInt(fs[0])
12     fields[0][1] = getInt(fs[1])
13     fields[0][2] = getInt(fs[2])
14     fields[0][3] = getInt(fs[9])
15     fields[0][4] = getInt(fs[10])
16     fields[0][5] = getInt(fs[11])
17     fields[0][6] = getInt(fs[18])
18     fields[0][7] = getInt(fs[19])
19     fields[0][8] = getInt(fs[20])
20
21     fields[1][0] = getInt(fs[3])
22     fields[1][1] = getInt(fs[4])
23     fields[1][2] = getInt(fs[5])
24     fields[1][3] = getInt(fs[12])
25     fields[1][4] = getInt(fs[13])
26     fields[1][5] = getInt(fs[14])
27     fields[1][6] = getInt(fs[21])
28     fields[1][7] = getInt(fs[22])
29     fields[1][8] = getInt(fs[23])
30
31     fields[2][0] = getInt(fs[6])
32     fields[2][1] = getInt(fs[7])
33     fields[2][2] = getInt(fs[8])
34     fields[2][3] = getInt(fs[15])
35     fields[2][4] = getInt(fs[16])
36     fields[2][5] = getInt(fs[17])
37     fields[2][6] = getInt(fs[24])
38     fields[2][7] = getInt(fs[25])
39     fields[2][8] = getInt(fs[26])
40
41     fields[3][0] = getInt(fs[27])
42     fields[3][1] = getInt(fs[28])
43     fields[3][2] = getInt(fs[29])
```

```
44 fields[3][3] = getInt(fs[36])
45 fields[3][4] = getInt(fs[37])
46 fields[3][5] = getInt(fs[38])
47 fields[3][6] = getInt(fs[45])
48 fields[3][7] = getInt(fs[46])
49 fields[3][8] = getInt(fs[47])
50
51 fields[4][0] = getInt(fs[30])
52 fields[4][1] = getInt(fs[31])
53 fields[4][2] = getInt(fs[32])
54 fields[4][3] = getInt(fs[39])
55 fields[4][4] = getInt(fs[40])
56 fields[4][5] = getInt(fs[41])
57 fields[4][6] = getInt(fs[48])
58 fields[4][7] = getInt(fs[49])
59 fields[4][8] = getInt(fs[50])
60
61 fields[5][0] = getInt(fs[33])
62 fields[5][1] = getInt(fs[34])
63 fields[5][2] = getInt(fs[35])
64 fields[5][3] = getInt(fs[42])
65 fields[5][4] = getInt(fs[43])
66 fields[5][5] = getInt(fs[44])
67 fields[5][6] = getInt(fs[51])
68 fields[5][7] = getInt(fs[52])
69 fields[5][8] = getInt(fs[53])
70
71 fields[6][0] = getInt(fs[54])
72 fields[6][1] = getInt(fs[55])
73 fields[6][2] = getInt(fs[56])
74 fields[6][3] = getInt(fs[63])
75 fields[6][4] = getInt(fs[64])
76 fields[6][5] = getInt(fs[65])
77 fields[6][6] = getInt(fs[72])
78 fields[6][7] = getInt(fs[73])
79 fields[6][8] = getInt(fs[74])
80
81 fields[7][0] = getInt(fs[57])
82 fields[7][1] = getInt(fs[58])
83 fields[7][2] = getInt(fs[59])
84 fields[7][3] = getInt(fs[66])
85 fields[7][4] = getInt(fs[67])
86 fields[7][5] = getInt(fs[68])
87 fields[7][6] = getInt(fs[75])
88 fields[7][7] = getInt(fs[76])
89 fields[7][8] = getInt(fs[77])
```

```
fields[8][8] = getInt(fs[80])
```

```
fields[8][0] = getInt(fs[60])
```

```
fields[8][1] = getInt(fs[61])
```

```
fields[8][2] = getInt(fs[62])
```

```
fields[8][3] = getInt(fs[69])
```

```
fields[8][4] = getInt(fs[70])
```

```
fields[8][5] = getInt(fs[71])
```

```
fields[8][6] = getInt(fs[78])
```

```
fields[8][7] = getInt(fs[79])
```

```
fields[8][8] = getInt(fs[80])
```

```
return fields
```

```
}
```

```
func projectMove(macro_index int, micro_index int) string {
```

```
    r := "place_move"
```

```
    var projection [9][9]string
```

```
    projection[0][0] = "0 0"
```

```
    projection[0][1] = "1 0"
```

```
    projection[0][2] = "2 0"
```

```
    projection[0][3] = "0 1"
```

```
    projection[0][4] = "1 1"
```

```
    projection[0][5] = "2 1"
```

```
    projection[0][6] = "0 2"
```

```
    projection[0][7] = "1 2"
```

```
    projection[0][8] = "2 2"
```

```
    projection[1][0] = "3 0"
```

```
    projection[1][1] = "4 0"
```

```
    projection[1][2] = "5 0"
```

```
    projection[1][3] = "3 1"
```

```
    projection[1][4] = "4 1"
```

```
    projection[1][5] = "5 1"
```

```
    projection[1][6] = "3 2"
```

```
    projection[1][7] = "4 2"
```

```
    projection[1][8] = "5 2"
```

```
    projection[2][0] = "6 0"
```

```
    projection[2][1] = "7 0"
```

```
    projection[2][2] = "8 0"
```

```
    projection[2][3] = "6 1"
```

```
    projection[2][4] = "7 1"
```

```
    projection[2][5] = "8 1"
```

```
135 projection[2][6] = "6 2"
136 projection[2][7] = "7 2"
137 projection[2][8] = "8 2"
138
139 projection[3][0] = "0 3"
140 projection[3][1] = "1 3"
141 projection[3][2] = "2 3"
142 projection[3][3] = "0 4"
143 projection[3][4] = "1 4"
144 projection[3][5] = "2 4"
145 projection[3][6] = "0 5"
146 projection[3][7] = "1 5"
147 projection[3][8] = "2 5"
148
149 projection[4][0] = "3 3"
150 projection[4][1] = "4 3"
151 projection[4][2] = "5 3"
152 projection[4][3] = "3 4"
153 projection[4][4] = "4 4"
154 projection[4][5] = "5 4"
155 projection[4][6] = "3 5"
156 projection[4][7] = "4 5"
157 projection[4][8] = "5 5"
158
159 projection[5][0] = "6 3"
160 projection[5][1] = "7 3"
161 projection[5][2] = "8 3"
162 projection[5][3] = "6 4"
163 projection[5][4] = "7 4"
164 projection[5][5] = "8 4"
165 projection[5][6] = "6 5"
166 projection[5][7] = "7 5"
167 projection[5][8] = "8 5"
168
169 projection[6][0] = "0 6"
170 projection[6][1] = "1 6"
171 projection[6][2] = "2 6"
172 projection[6][3] = "0 7"
173 projection[6][4] = "1 7"
174 projection[6][5] = "2 7"
175 projection[6][6] = "0 8"
176 projection[6][7] = "1 8"
177 projection[6][8] = "2 8"
178
179 projection[7][0] = "3 6"
180 projection[7][1] = "4 6"
```

```
181     projection[7][2] = "5 6"  
182     projection[7][3] = "3 7"  
183     projection[7][4] = "4 7"  
184     projection[7][5] = "5 7"  
185     projection[7][6] = "3 8"  
186     projection[7][7] = "4 8"  
187     projection[7][8] = "5 8"  
188  
189     projection[8][0] = "6 6"  
190     projection[8][1] = "7 6"  
191     projection[8][2] = "8 6"  
192     projection[8][3] = "6 7"  
193     projection[8][4] = "7 7"  
194     projection[8][5] = "8 7"  
195     projection[8][6] = "6 8"  
196     projection[8][7] = "7 8"  
197     projection[8][8] = "8 8"  
198  
199     r = r + " " + projection[macro_index][micro_index]  
200     return r  
201 }
```