

```

iiiiiii  00000  o   0000000 00000 00000
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I \ '+ ' / I  8    8    8  8  8  8
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`_  |  _-'    8    8    8    8  8
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```

Welcome to GNU CLISP 2.44 (2008-02-02) <<http://clisp.cons.org/>>

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Type :h and hit Enter for context help.

```
[35]> (load "~/Downloads/Man/mxc.lisp")
```

```
;; Loading file /home/sutar010/Downloads/Man/mxc.lisp ...
```

```
;; Loaded file /home/sutar010/Downloads/Man/mxc.lisp
```

```
T
```

```
[36]> (solution 15 15 6)
```

```
Left Bank Intially(M C):(15 15) Left Bank after boat left(M C):(15 9)  Boat carrying from left bank to
right(M C):(0 6)    Right Bank Intially(M C):(0 0)  Right Bank after boat arrived(M C):(0 6)
```

```
Left Bank after boat arrived(M C):(15 10) Left Bank Intially(M C):(15 9)  Boat carrying from right bank to
left(M C):(0 1)    Right Bank after boat left(M C):(0 5)  Right Bank Intially(M C):(0 6)
```

```
Left Bank Intially(M C):(15 10) Left Bank after boat left(M C):(10 10)  Boat carrying from left bank to
right(M C):(5 0)    Right Bank Intially(M C):(0 5)  Right Bank after boat arrived(M C):(5 5)
```

Left Bank after boat arrived(M C):(11 11) Left Bank Initially(M C):(10 10) Boat carrying from right bank to left(M C):(1 1) Right Bank after boat left(M C):(4 4) Right Bank Initially(M C):(5 5)

Left Bank Initially(M C):(11 11) Left Bank after boat left(M C):(8 8) Boat carrying from left bank to right(M C):(3 3) Right Bank Initially(M C):(4 4) Right Bank after boat arrived(M C):(7 7)

Left Bank after boat arrived(M C):(9 9) Left Bank Initially(M C):(8 8) Boat carrying from right bank to left(M C):(1 1) Right Bank after boat left(M C):(6 6) Right Bank Initially(M C):(7 7)

Left Bank Initially(M C):(9 9) Left Bank after boat left(M C):(6 6) Boat carrying from left bank to right(M C):(3 3) Right Bank Initially(M C):(6 6) Right Bank after boat arrived(M C):(9 9)

Left Bank after boat arrived(M C):(7 7) Left Bank Initially(M C):(6 6) Boat carrying from right bank to left(M C):(1 1) Right Bank after boat left(M C):(8 8) Right Bank Initially(M C):(9 9)

Left Bank Initially(M C):(7 7) Left Bank after boat left(M C):(4 4) Boat carrying from left bank to right(M C):(3 3) Right Bank Initially(M C):(8 8) Right Bank after boat arrived(M C):(11 11)

Left Bank after boat arrived(M C):(5 5) Left Bank Initially(M C):(4 4) Boat carrying from right bank to left(M C):(1 1) Right Bank after boat left(M C):(10 10) Right Bank Initially(M C):(11 11)

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Left Bank after boat arrived(M C):(0 5) Left Bank Initially(M C):(0 4) Boat carrying from right bank to left(M C):(0 1) Right Bank after boat left(M C):(15 10) Right Bank Initially(M C):(15 11)

Left Bank Initially(M C):(0 5) Left Bank after boat left(M C):(0 0) Boat carrying from left bank to right(M C):(0 5) Right Bank Initially(M C):(15 10) Right Bank after boat arrived(M C):(15 15)

successfully transferred all missionaries and cannibals from left to right bank

READ\_ME

Steps to run:

1) Load the mxc.lisp file in clisp:

```
(load "~/file_path/8puzzle.lisp")
```

2) Call the function solution as example:

```
(solution 15 15 6)
```

3) Output will be displayed.