

# Homework06 41047025 王重鈞

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## 6.1 Point Mirroring

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It is a library named mirror, you can use `set_line` function to set a function, using `get_mirror` function to find the mirror point with the line you set by `set_line` function. If `set_line` argument is wrong, the program will use the last correct setting.

## 6.2 Extended Euclidean Algorithm

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It is a library named ext, you can use `ext_euclidean` function to find multiplicative inverse of  $b \bmod a$ . If  $a < b$ , return -1 and  $c$  is meaningless. If  $\gcd(a, b) \neq 1$ , return 0 and  $c$  is the gcd. If  $\gcd(a, b) = 1$ , return 1, and  $c$  is multiplicative inverse of  $b \bmod a$ .

## 6.3 Integer Editor

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This is a Integer Editor, which can allow you to edit an number.

## 6.4 Finite State Machine

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Same description with hw0303.

## 6.5 Dynamic Memory Allocation

This is a `realloc` implementation.