/\*

#include <stdio.h>

void swap (int \* p, int \* q);

int main (int argc, char const \*argv[])

{ if (argc == 3)

{ int a = atoi (argv[1]);

int b = atoi (argv[2]);

swap (&a, &b);

printf ("%d %d\n", a, b);

return 0;

}

else printf ("Veuillez mettre en argument les deux entiers\n");

return 2;

}

\*/

/\*@

requires \valid (p);

requires \valid (q);

ensures p[0] == \old (q[0]);

ensures q[0] == \old (p[0]);

// assigns p[0];

// assigns q[0];

@\*/

void swap (int \* p, int \* q)

{ if ((\*p > 0 && \*q > 0) || (\*p < 0 && \*q < 0))

{ \*p -= \*q;

\*q += \*p;

\*p = \*q - \*p;

}

else

{ \*p += \*q;

\*q = \*p - \*q;

\*p -= \*q;

}

return;

}