```
int
       addch(const chtype);
       addchnstr(const chtype *, int);
int
int
       addchstr(const chtype *);
int
       addnstr(const char *, int);
int
       addnwstr(const wchar_t *, int);
int
       addstr(const char *);
int
       add_wch(const cchar_t *);
       add_wchnstr(const cchar_t *, int);
int
       add_wchstr(const cchar_t *);
int
int
       addwstr(const wchar_t *);
int
       attroff(int);
int
       attron(int);
int
       attrset(int);
int
       attr_get(attr_t *, short *, void *);
       attr_off(attr_t, void *);
int
      attr_on(attr_t, void *);
attr_set(attr_t, short, void *);
int
int
int
       baudrate(void);
int
       beep(void);
int
       bkgd(chtype);
void
       bkgdset(chtype);
int
       bkgrnd(const cchar_t *);
void
       bkgrndset(const cchar_t *);
int
       border(chtype, chtype, chtype, chtype, chtype, chtype, chtype);
      int
      box(WINDOW *, chtype, chtype);
int
       box_set(WINDOW *, const cchar_t *, const cchar_t *);
int
bool
      can change color(void);
int
       cbreak(void);
       chgat(int, attr_t, short, const void *);
int
int
       clearok(WINDOW *, bool);
      clear(void);
int
int
       clrtobot(void);
int
       clrtoeol(void);
int
       color_content(short, short *, short *);
      COLOR_PAIR(int);
int
       color_set(short,void *);
int
       copywin(const WINDOW *, WINDOW *, int, int, int, int, int, int, int);
int
int
       curs_set(int);
int
       def_prog_mode(void);
      def_shell_mode(void);
int
int
       delay_output(int);
       delch(void);
int
       deleteln(void);
int
void
      delscreen(SCREEN *);
      delwin(WINDOW *);
int
WINDOW *derwin(WINDOW *, int, int, int, int);
      doupdate(void);
int
WINDOW *dupwin(WINDOW *);
int
      echo(void);
      echochar(const chtype);
int
int
       echo wchar(const cchar t *);
int
      endwin(void);
      erasechar(void);
char
      erase(void);
int
int
      erasewchar(wchar t *);
void
      filter(void);
int
       flash(void);
       flushinp(void);
int
chtype getbkgd(WINDOW *);
       getbkgrnd(cchar_t *);
int
       getcchar(const cchar_t *, wchar_t *, attr_t *, short *, void *);
int
      getch(void);
int
      getnstr(char *, int);
int
```

```
getn_wstr(wint_t *, int);
int
        getstr(char *);
       get_wch(wint_t *);
int
WINDOW *getwin(FILE *);
       get_wstr(wint_t *);
int
        halfdelay(int);
bool
       has_colors(void);
bool
       has_ic(void);
       has il(void);
bool
       hline(chtype, int);
int
        hline_set(const cchar_t *, int);
int
       idcok(WINDOW *, bool);
idlok(WINDOW *, bool);
void
int
void
        immedok(WINDOW *, bool);
chtype inch(void);
        inchnstr(chtype *, int);
int
int
        inchstr(chtype *);
WINDOW *initscr(void);
        init_color(short, short, short);
int
int
        init_pair(short, short, short);
int
        innstr(char *, int);
int
       innwstr(wchar_t *, int);
int
        insch(chtype);
int
        insdelln(int);
       insertln(void);
int
int
        insnstr(const char *, int);
int
        ins_nwstr(const wchar_t *, int);
int
        insstr(const char *);
        instr(char *);
int
int
        ins_wch(const cchar_t *);
int
        ins_wstr(const wchar_t *);
int
        intrflush(WINDOW *, bool);
int
        in_wch(cchar_t *);
int
        in_wchnstr(cchar_t *, int);
int
        in_wchstr(cchar_t *);
       inwstr(wchar_t *);
int
bool
       isendwin(void);
bool
       is_linetouched(WINDOW *, int);
bool
       is_wintouched(WINDOW *);
char
       *keyname(int);
char
        *key_name(wchar_t);
int
        keypad(WINDOW *, bool);
       killchar(void);
char
        killwchar(wchar_t *);
int
       leaveok(WINDOW *, bool);
int
       *longname(void);
char
       meta(WINDOW *, bool);
int
int
       move(int, int);
       mvaddch(int, int, const chtype);
int
       mvaddchnstr(int, int, const chtype *, int);
mvaddchstr(int, int, const chtype *);
mvaddnstr(int, int, const char *, int);
int
int
int
       mvaddnwstr(int, int, const wchar_t *, int);
int
       mvaddstr(int, int, const char *);
int
       mvadd_wch(int, int, const cchar_t *);
mvadd_wchnstr(int, int, const cchar_t *, int);
mvadd_wchstr(int, int, const cchar_t *);
int
int
int
int
       mvaddwstr(int, int, const wchar_t *);
       mvchgat(int, int, int, attr_t, short, const void *);
int
int
       mvcur(int, int, int);
       mvdelch(int, int);
int
int
       mvderwin(WINDOW *, int, int);
int
       mvgetch(int, int);
int
       mvgetnstr(int, int, char *, int);
int
       mvgetn_wstr(int, int, wint_t *, int);
```

```
mvgetstr(int, int, char *);
            mvget_wch(int, int, wint_t *);
int
            mvget_wstr(int, int, wint_t *);
int
            mvhline(int, int, chtype, int);
mvhline_set(int, int, const cchar_t *, int);
int
int
chtype mvinch(int, int);
            mvinchnstr(int, int, chtype *, int);
mvinchstr(int, int, chtype *);
mvinnstr(int, int, char *, int);
int
int
int
            mvinnwstr(int, int, wchar_t *, int);
int
int
            mvinsch(int, int, chtype);
int
            mvinsnstr(int, int, const char *, int);
int
            mvins_nwstr(int, int, const wchar_t *, int);
            mvinsstr(int, int, const char *);
mvinstr(int, int, char *);
int
int
int
            mvins_wch(int, int, const cchar_t *);
int
            mvins_wstr(int, int, const wchar_t *);
int
            mvin_wch(int, int, cchar_t *);
             mvin_wchnstr(int, int, cchar_t *, int);
int
int
            mvin_wchstr(int, int, cchar_t *);
int
            mvinwstr(int, int, wchar_t *);
            mvprintw(int, int, char *, ...);
int
           mvpi thrw(int, tht, char *, ...);
mvscanw(int, int, char *, ...);
mvvline(int, int, chtype, int);
mvvline_set(int, int, const cchar_t *, int);
mvwaddch(WINDOW *, int, int, const chtype);
mvwaddchnstr(WINDOW *, int, int, const chtype *, int);

**The following the first const chtype *, int);
int
int
int
int
int
            mvwaddchstr(WINDOW *, int, int, const chtype *);
mvwaddnstr(WINDOW *, int, int, const char *, int);
mvwaddnwstr(WINDOW *, int, int, const wchar_t *, int);
int
int
int
            mvwaddstr(WINDOW *, int, int, const char *);
mvwadd_wch(WINDOW *, int, int, const cchar_t *);
mvwadd_wchnstr(WINDOW *, int, int, const cchar_t *, int);
mvwadd_wchstr(WINDOW *, int, int, const cchar_t *);
int
int
int
int
            mvwaddwstr(WINDOW *, int, int, const cchar_t *);
mvwchgat(WINDOW *, int, int, int, attr_t, short, const void *);
mvwdelch(WINDOW *, int, int);
mvwcatch(WINDOW *, int, int);
int
int
int
            mvwgetch(WINDOW *, int, int);
mvwgetnstr(WINDOW *, int, int, char *, int);
mvwgetn_wstr(WINDOW *, int, int, wint_t *, int);
int
int
int
            mvwgeth_wstr(WINDOW *, int, int, char *);
mvwget_wch(WINDOW *, int, int, wint_t *);
mvwget_wstr(WINDOW *, int, int, wint_t *);
mvwhline(WINDOW *, int, int, chtype, int);
mvwhline_set(WINDOW *, int, int, const cchar_t *, int);
int
int
int
int
int
            mvwin(WINDOW *, int, int);
int
chtype mvwinch(WINDOW *, int, int);
int
            mvwinchnstr(WINDOW *, int, int, chtype *, int);
            mvwinchstr(WINDOW *, int, int, chtype *);
int
            mvwinnstr(WINDOW *, int, int, char *, int);
mvwinnwstr(WINDOW *, int, int, wchar_t *, int);
int
int
            mvwinsch(WINDOW *, int, int, chtype);
mvwinsnstr(WINDOW *, int, int, const char *, int);
mvwins_nwstr(WINDOW *, int, int, const wchar_t *, int);
int
int
int
            mvwinsstr(WINDOW *, int, int, const char *);
mvwinstr(WINDOW *, int, int, char *);
mvwins_wch(WINDOW *, int, int, const cchar_t *);
mvwins_wstr(WINDOW *, int, int, const wchar_t *);
int
int
int
int
            mvwin_wch(WINDOW *, int, int, cchar_t *);
int
            mvwin_wchnstr(WINDOW *, int, int, cchar_t *, int);
mvwin_wchstr(WINDOW *, int, int, cchar_t *);
int
int
            mvwinwstr(WINDOW *, int, int, wchar_t *);
mvwprintw(WINDOW *, int, int, char *, ...);
mvwscanw(WINDOW *, int, int, char *, ...);
mvwvline(WINDOW *, int, int, chtype, int);
int
int
int
int
```

```
mvwvline_set(WINDOW *, int, int, const cchar_t *, int);
int
       napms(int);
WINDOW *newpad(int, int);
SCREEN *newterm(char *, FILE *, FILE *);
WINDOW *newwin(int, int, int, int);
       nl(void);
int
       nocbreak(void);
       nodelay(WINDOW *, bool);
int
       noecho(void);
int
int
       nonl(void);
       noqiflush(void);
void
int
       noraw(void);
       notimeout(WINDOW *, bool);
int
       overlay(const WINDOW *, WINDOW *);
overwrite(const WINDOW *, WINDOW *);
int
int
int
       pair_content(short, short *, short *);
int
       PAIR_NUMBER(int);
       pechochar(WINDOW *, chtype);
pecho_wchar(WINDOW *, const cchar_t*);
pnoutrefresh(WINDOW *, int, int, int, int, int);
int
int
int
int
       prefresh(WINDOW *, int, int, int, int, int);
       printw(char *, ...);
int
int
       putp(const char *);
       putwin(WINDOW *, FILE *);
int
void
       qiflush(void);
int
       raw(void);
int
       redrawwin(WINDOW *);
int
       refresh(void);
       reset_prog_mode(void);
int
int
       reset_shell_mode(void);
int
       resetty(void);
int
       ripoffline(int, int (*)(WINDOW *, int));
int
       savetty(void);
       scanw(char *, ...);
int
int
       scr_dump(const char *);
       scr_init(const char *);
int
       scrl(int);
int
       scroll(WINDOW *);
int
       scrollok(WINDOW *, bool);
int
       scr_restore(const char *);
int
int
       scr_set(const char *);
       setcchar(cchar_t*, const wchar_t*, const attr_t, short, const void*);
int
int
       setscrreg(int, int);
SCREEN *set_term(SCREEN *);
       setupterm(char *, int, int *);
int
       slk_attr_off(const attr_t, void *);
int
       slk_attroff(const chtype);
int
int
       slk attr on(const attr t, void *);
int
       slk_attron(const chtype);
int
       slk_attr_set(const attr_t, short, void *);
int
       slk_attrset(const chtype);
int
       slk_clear(void);
int
       slk_color(short);
       slk_init(int);
int
       *slk_label(int);
char
int
       slk_noutrefresh(void);
       slk_refresh(void);
int
int
       slk_restore(void);
       slk_set(int, const char *, int);
int
       slk_touch(void);
int
int
       slk_wset(int, const wchar_t *, int);
       standend(void);
int
int
       standout(void);
       start_color(void);
int
WINDOW *subpad(WINDOW *, int, int, int);
```

```
WINDOW *subwin(WINDOW *, int, int, int);
        syncok(WINDOW *, bool);
chtype termattrs(void);
attr_t term_attrs(void);
        *termname(void);
char
int
        tigetflag(char *);
int
        tigetnum(char *);
        *tigetstr(char *);
char
void
        timeout(int);
        touchline(WINDOW *, int, int);
int
        touchwin(WINDOW *);
int
char
        *tparm(char *, long, long, long, long, long, long, long, long);
int
        typeahead(int);
int
        ungetch(int);
int
        unget wch(const wchar t);
        untouchwin(WINDOW *);
int
        use_env(bool);
void
int
        vid_attr(attr_t, short, void *);
int
        vidattr(chtype);
int
        vid_puts(attr_t, short, void *, int (*)(int));
int
        vidputs(chtype, int (*)(int));
int
        vline(chtype, int);
int
        vline_set(const cchar_t *, int);
        vwprintw(WINDOW *, char *, va_list *);
vw_printw(WINDOW *, char *, va_list *);
vwscanw(WINDOW *, char *, va_list *);
vw_scanw(WINDOW *, char *, va_list *);
int
int
int
int
        waddch(WINDOW *, const chtype);
int
int
        waddchnstr(WINDOW *, const chtype *, int);
        waddchstr(WINDOW *, const chtype *);
int
        waddnstr(WINDOW *, const char *, int);
waddnwstr(WINDOW *, const wchar_t *, int);
int
int
        waddstr(WINDOW *, const char *);
wadd_wch(WINDOW *, const cchar_t *);
int
int
        wadd_wchnstr(WINDOW *, const cchar_t *, int);
wadd_wchstr(WINDOW *, const cchar_t *);
int
int
int
        waddwstr(WINDOW *, const wchar_t *);
        wattroff(WINDOW *, int);
int
       wattron(WINDOW *, int);
wattrset(WINDOW *, int);
wattr_get(WINDOW *, attr_t *, short *, void *);
int
int
int
        wattr_off(WINDOW *, attr_t, void *);
int
        wattr_on(WINDOW *, attr_t, void *);
wattr_set(WINDOW *, attr_t, short, void *);
int
int
        wbkgd(WINDOW *, chtype);
int
        wbkgdset(WINDOW *, chtype);
wbkgrnd(WINDOW *, const cchar_t *);
void
int
        wbkgrndset(WINDOW *, const cchar t *);
void
int
        wborder(WINDOW *, chtype, chtype, chtype, chtype, chtype, chtype, chtype);
        wborder_set(WINDOW *, const cchar_t *, const cchar_t *, const cchar_t *, const cchar_t *, .
int
const cchar_t *, const cchar_t *, const cchar_t *, const cchar_t *);
        wchgat(WINDOW *, int, attr_t, short, const void *);
int
int
        wclear(WINDOW *);
        wclrtobot(WINDOW *);
int
        wclrtoeol(WINDOW *);
int
        wcursyncup(WINDOW *);
void
        wcolor_set(WINDOW *, short, void *);
int
int
        wdelch(WINDOW *);
        wdeleteln(WINDOW *);
int
        wechochar(WINDOW *, const chtype);
wecho_wchar(WINDOW *, const cchar_t *);
int
int
        werase(WINDOW *);
int
        wgetbkgrnd(WINDOW *, cchar_t *);
int
int
        wgetch(WINDOW *);
        wgetnstr(WINDOW *, char *, int);
int
```

```
int
         wgetn_wstr(WINDOW *, wint_t *, int);
         wgetstr(WINDOW *, char *);
int
         wget_wch(WINDOW *, wint_t *);
wget_wstr(WINDOW *, wint_t *);
int
int
         whline(WINDOW *, chtype, int);
int
         whline_set(WINDOW *, const cchar_t *, int);
int
chtype winch(WINDOW *);
         winchnstr(WINDOW *, chtype *, int);
int
         winchstr(WINDOW *, chtype *);
int
         winnstr(WINDOW *, char *, int);
winnwstr(WINDOW *, wchar_t *, int);
int
int
         winsch(WINDOW *, chtype);
int
         winsdelln(WINDOW *, int);
int
int
         winsertln(WINDOW *);
         winsnstr(WINDOW *, const char *, int);
wins_nwstr(WINDOW *, const wchar_t *, int);
int
int
        winsstr(WINDOW *, const char *);
winstr(WINDOW *, char *);
wins_wch(WINDOW *, const cchar_t *);
wins_wstr(WINDOW *, const wchar_t *);
win_wch(WINDOW *, cohar_t *);
int
int
int
int
int
         win_wchnstr(WINDOW *, cchar_t *, int);
int
int
         win_wchstr(WINDOW *, cchar_t *);
        winwstr(WINDOW *, wchar_t *);
wmove(WINDOW *, int, int);
int
int
         wnoutrefresh(WINDOW *);
int
        wprintw(WINDOW *, char *, ...);
wredrawln(WINDOW *, int, int);
int
int
int
         wrefresh(WINDOW *);
        wscanw(WINDOW *, char *, ...);
wscrl(WINDOW *, int);
int
int
int
        wsetscrreg(WINDOW *, int, int);
int
         wstandend(WINDOW *);
int
         wstandout(WINDOW *);
void
         wsyncup(WINDOW *);
         wsyncdown(WINDOW *);
void
        wtimeout(WINDOW *, int);
wtouchln(WINDOW *, int, int, int);
void
int
wchar_t *wunctrl(cchar_t *);
         wvline(WINDOW *, chtype, int);
int
         wvline_set(WINDOW *, const cchar_t *, int);
int
```