putchar

#include <unistd.h>

/\*\*

\* \_putchar - writes the character c to stdout

\* @c: The character to print

\*

\* Return: On success 1.

\* On error, -1 is returned, and errno is set appropriately.

\*/

int \_putchar(char c)

{

return (write(1, &c, 1));

}

**Main.h.txt**

#ifndef HOLBERTON\_H\_INCLUDED

#define HOLBERTON\_H\_INCLUDED

int \_putchar(char);

void print\_alphabet(void);

void print\_alphabet\_x10(void);

int \_islower(int c);

int \_isalpha(int c);

int print\_sign(int n);

int \_abs(int);

int print\_last\_digit(int);

void jack\_bauer(void);

void times\_table(void);

int add(int a, int b);

void print\_to\_98(int n);

void print\_times\_table(int n);

void num(int r, int n);

#endif

Task 0

#include "main.h"

/\*\*

\* main - print putchar

\* Return: always 0

\*/

int main(void)

{

\_putchar('\_');

\_putchar('p');

\_putchar('u');

\_putchar('t');

\_putchar('c');

\_putchar('h');

\_putchar('a');

\_putchar('r');

\_putchar('\n');

return (0);

}

Task 1

#include "main.h"

/\*\*

\* print\_alphabet - function to print abc

\*

\* Return: 0

\*/

void print\_alphabet(void)

{

char c;

for (c = 'a'; c <= 'z'; c++)

{

\_putchar(c);

}

\_putchar('\n');

}

Task 2

#include "main.h"

/\*\*

\* print\_alphabet\_x10 - function to print abc 10 times

\*

\* Return: 0

\*/

void print\_alphabet\_x10(void)

{

char c, i;

for (i = 0; i <= 9; i++)

{

for (c = 'a'; c <= 'z'; c++)

{

\_putchar(c);

}

\_putchar('\n');

}

}

Task 3

#include "main.h"

/\*\*

\* \_islower - function to check for lowercase character

\* @c: is the int that will use for the argument of the function

\* Return: 0

\*/

int \_islower(int c)

{

if (c >= 'a' && c <= 'z')

{

return (1);

}

else

return (0);

}

Task 4

#include "main.h"

/\*\*

\* \_isalpha - function to check if c is a letter, lowercase or uppercase

\* @c: is the int that will use for the argument of the function

\* Return: 0

\*/

int \_isalpha(int c)

{

if ((c >= 'a' && c <= 'z') || (c >= 'A' && c <= 'Z'))

{

return (1);

}

else

return (0);

}

Task 5

#include "main.h"

/\*\*

\* print\_sign - function to check for a sign of a number

\* @n: is the int that will use for the argument of the function

\* Return: 0

\*/

int print\_sign(int n)

{

if (n > 0)

{

\_putchar('+');

return (1);

}

else if (n < 0)

{

\_putchar('-');

return (-1);

}

else

{

\_putchar('0');

return (0);

}

}

Task 6

#include "main.h"

#include <stdio.h>

/\*\*

\* \_abs - function that computes the absolute value of an integer

\* @c: is the int that will use for the argument of the function

\* Return: 0

\*/

int \_abs(int c)

{

if (c > 0 || c == 0)

{

return (c);

}

else

return (c \* -1);

}

Task 7

#include "main.h"

/\*\*

\*print\_last\_digit - Prints the last digit of a number.

\*@n: The number in question.

\*

\*Return: Value of the last digit.

\*/

int print\_last\_digit(int n)

{

int last\_digit = n % 10;

if (last\_digit < 0)

last\_digit \*= -1;

\_putchar(last\_digit + '0');

return (last\_digit);

}

Task 8

#include "main.h"

/\*\*

\* jack\_bauer - func that prints every minute of the day of Jack Bauer, starti

\* n from 00:00 to 23:59, min loop counts mins, while hour loop counts hours

\* and resets mins

\* Return: 0

\*/

void jack\_bauer(void)

{

int hours = 0;

int minutes = 0;

int hours\_remainder;

int mins\_remainder;

while (hours <= 23)

{

while (minutes <= 59)

{

mins\_remainder = minutes % 10;

hours\_remainder = hours % 10;

\_putchar(hours / 10 + '0');

\_putchar(hours\_remainder + '0');

\_putchar(':');

\_putchar(minutes / 10 + '0');

\_putchar(mins\_remainder + '0');

minutes++;

\_putchar('\n');

}

hours++;

minutes = 0;

}

}

Task 9

#include "main.h"

/\*\*

\*times\_table - Prints the 9 times table, starting with 0.

\*/

void times\_table(void)

{

int num, mult, prod;

for (num = 0; num <= 9; num++)

{

\_putchar('0');

for (mult = 1; mult <= 9; mult++)

{

\_putchar(',');

\_putchar(' ');

prod = num \* mult;

if (prod <= 9)

\_putchar(' ');

else

\_putchar((prod / 10) + '0');

\_putchar((prod % 10) + '0');

}

\_putchar('\n');

}

}

Task 10

#include "main.h"

/\*\*

\* add - Adds two integers.

\* @num1: The first integer to be added.

\* @num2: The second integer to be added.

\*

\* Return: The result of the addition.

\*/

int add(int num1, int num2)

{

return (num1 + num2);

}

Task 11

#include <stdio.h>

/\*\*

\* print\_to\_98 - Prints all natural numbers from input to 98,

\* in order separated by a comma followed by a space.

\* @n: The number to begin counting at.

\*/

void print\_to\_98(int n)

{

if (n >= 98)

{

while (n > 98)

printf("%d, ", n--);

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

}

else

{

while (n < 98)

printf("%d, ", n++);

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

}

}