Argc Argv

MAIN.H code

#ifndef MAIN\_H

#define MAIN\_H

int \_putchar(char c);

int \_atoi(char \*s);

#endif

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-putchar code

#include <stdio.h>

#include "main.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));

}

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0 - whatsmyname.c code

#include <stdio.h>

/\*\*

\* main - prints its name, followed by a new line.

\* @argc: argument count

\* @argv: arguments

\*

\* Return: 0

\*/

int main(int argc, char \*\*argv)

{

(void)argc;

printf("%s\n", argv[0]);

return (0);

}

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1 - args.c code

#include <stdio.h>

/\*\*

\* main - prints the number of arguments passed into it.

\* @argc: argument count

\* @argv: arguments

\*

\* Return: 0

\*/

int main(int argc, char \*\*argv)

{

(void)argv;

printf("%d\n", argc - 1);

return (0);

}

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2 - args.c code

#include <stdio.h>

/\*\*

\* main - prints all arguments it receives.

\* @argc: argument count

\* @argv: arguments

\*

\* Return: 0

\*/

int main(int argc, char \*\*argv)

{

int i;

for (i = 0; i < argc; i++)

printf("%s\n", argv[i]);

return (0);

}

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3 - mul.c code

#include <stdio.h>

#include <stdlib.h>

/\*\*

\* main - multiplies two numbers.

\* @argc: argument count

\* @argv: arguments

\*

\* Return: 0

\*/

int main(int argc, char \*\*argv)

{

int x, y;

if (argc < 3)

{

printf("Error\n");

return (1);

}

x = atoi(argv[1]);

y = atoi(argv[2]);

printf("%d\n", x \* y);

return (0);

}

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4 - add.c code

#include <stdio.h>

#include <stdlib.h>

/\*\*

\* main - adds positive numbers.

\* @argc: argument count

\* @argv: arguments

\*

\* Return: 0

\*/

int main(int argc, char \*\*argv)

{

int i, n, sum = 0;

char \*flag;

if (argc < 2)

{

printf("0\n");

return (0);

}

for (i = 1; argv[i]; i++)

{

n = strtol(argv[i], &flag, 10);

if (\*flag)

{

printf("Error\n");

return (1);

}

else

{

sum += n;

}

}

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

return (0);

}

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100 - change.c code

#include <stdio.h>

#include <stdlib.h>

/\*\*

\* main - prints the min number of coins to make change

\* for an amount of money

\* @argc: argument count

\* @argv: arguments

\* Return: 0

\*/

int main(int argc, char \*\*argv)

{

int total, count;

unsigned int i;

char \*p;

int cents[] = {25, 10, 5, 2};

if (argc != 2)

{

printf("Error\n");

return (1);

}

total = strtol(argv[1], &p, 10);

count = 0;

if (!\*p)

{

while (total > 1)

{

for (i = 0; i < sizeof(cents[i]); i++)

{

   if (total >= cents[i])

   {

       count += total / cents[i];

       total = total % cents[i];

   }

}

}

if (total == 1)

count++;

}

else

{

printf("Error\n");

return (1);

}

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

return (0);

}