**Задание 1**

**x86-64 gcc 11.1 (linux)**

char: 1

signed char: 1

usigned char: 1

wchar\_t: 4

short: 2

unsigned short: 2

int: 4

unsigned int: 4

long: 8

unsigned long: 8

long long: 8

unsigned long long: 8

float: 4

double: 8

long double: 16

size\_t: 8

ptrdiff\_t: 8

void\*: 8

char\*: 8

int\*: 8

unsigned int\*: 8

**x86-64 clang 12.0.1 (linux)**

char: 1

signed char: 1

usigned char: 1

wchar\_t: 4

short: 2

unsigned short: 2

int: 4

unsigned int: 4

long: 8

unsigned long: 8

long long: 8

unsigned long long: 8

float: 4

double: 8

long double: 16

size\_t: 8

ptrdiff\_t: 8

void\*: 8

char\*: 8

int\*: 8

unsigned int\*: 8

**x86-64 icc 19.0.1 (linux)**

char: 1

signed char: 1

usigned char: 1

wchar\_t: 4

short: 2

unsigned short: 2

int: 4

unsigned int: 4

long: 8

unsigned long: 8

long long: 8

unsigned long long: 8

float: 4

double: 8

long double: 16

size\_t: 8

ptrdiff\_t: 8

void\*: 8

char\*: 8

int\*: 8

unsigned int\*: 8

**MS Windows 64 GCC (MinGW) 64**

char: 1

signed char: 1

usigned char: 1

wchar\_t: 2

short: 2

unsigned short: 2

int: 4

unsigned int: 4

long: 4

unsigned long: 4

long long: 8

unsigned long long: 8

float: 4

double: 8

long double: 16

size\_t: 8

ptrdiff\_t: 8

void\*: 8

char\*: 8

int\*: 8

unsigned int\*: 8

**MS Windows 64 Microsoft 64**

char: 1

signed char: 1

usigned char: 1

wchar\_t: 2

short: 2

unsigned short: 2

int: 4

unsigned int: 4

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unsigned long: 4

long long: 8

unsigned long long: 8

float: 4

double: 8

long double: 8

size\_t: 8

ptrdiff\_t: 8

void\*: 8

char\*: 8

int\*: 8

unsigned int\*: 8

**MS Windows 64 Microsoft 32**

Задание 1\_\_\_\_\_\_\_\_\_\_

char: 1

signed char: 1

usigned char: 1

wchar\_t: 2

short: 2

unsigned short: 2

int: 4

unsigned int: 4

long: 4

unsigned long: 4

long long: 8

unsigned long long: 8

float: 4

double: 8

long double: 8

size\_t: 4

ptrdiff\_t: 4

void\*: 4

char\*: 4

int\*: 4

unsigned int\*: 4

Вывод: на windows wchar\_t занимает в 2 раза меньше памяти чем на linux

**Задание 2**

**x86-64 gcc 11.1 (linux)**

0x8d

0x8c

0x8b

0x8a

0x44

0x33

0x22

0x11

**x86-64 clang 12.0.1 (linux)**

0x8d

0x8c

0x8b

0x8a

0x44

0x33

0x22

0x11

**x86-64 icc 19.0.1 (linux)**

0x8d

0x8c

0x8b

0x8a

0x44

0x33

0x22

0x11

**MS Windows 64 GCC (MinGW) 64**

Целое число

0x8d

0x8c

0x8b

0x8a

Массив

0x8d

0x8c

0x8b

0x8a

0x6

0x0

0x0

0x0

0xfd

0xff

0xff

0xff

Double

0x0

0x0

0x0

0x0

0x0

0x0

0x18

0x40

**MS Windows 64 Microsoft 64**

Целое число

0x8d

0x8c

0x8b

0x8a

Массив

0x8d

0x8c

0x8b

0x8a

0x6

0x0

0x0

0x0

0xfd

0xff

0xff

0xff

Double

0x0

0x0

0x0

0x0

0x0

0x0

0x18

0x40

**MS Windows 64 Microsoft 32**

Целое число

0x8d

0x8c

0x8b

0x8a

Массив

0x8d

0x8c

0x8b

0x8a

0x6

0x0

0x0

0x0

0xfd

0xff

0xff

0xff

Double

0x0

0x0

0x0

0x0

0x0

0x0

0x18

0x40

**Задание 3 строчки char english**

**x86-64 gcc 11.1 (linux)**

0x61

0x62

0x63

0x7a

0x6b

0x6c

0x6d

0x6e

**x86-64 clang 12.0.1 (linux)**

0xd0

0xb0

0xd0

0xb1

0xd0

0xb2

0xd1

0x91

**x86-64 icc 19.0.1 (linux)**

0x61

0x62

0x63

0x7a

0x6b

0x6c

0x6d

0x6e

**MS Windows 64 GCC (MinGW) 64**

0x61

0x62

0x63

0x7a

0x6b

0x6c

0x6d

0x6e **MS Windows 64 Microsoft 64**

0x61

0x62

0x63

0x7a

0x6b

0x6c

0x6d

0x6e

**MS Windows 64 Microsoft 32**

0x61

0x62

0x63

0x7a

0x6b

0x6c

0x6d

0x6e

**Задание 3 строчки char russian**

**x86-64 gcc 11.1 (linux)**

0xd0

0xb0

0xd0

0xb1

0xd0

0xb2

0xd1

0x91

**x86-64 clang 12.0.1 (linux)**

0xd0

0xb0

0xd0

0xb1

0xd0

0xb2

0xd1

0x91

**x86-64 icc 19.0.1 (linux)**

0xd0

0xb0

0xd0

0xb1

0xd0

0xb2

0xd1

0x91

**MS Windows 64 GCC (MinGW) 64**

0xd0

0xb0

0xd0

0xb1

0xd0

0xb2

0xd1

0x91

**MS Windows 64 Microsoft 64**

0xe0

0xe1

0xe2

0xb8

0xea

0xeb

0xec

0xed

**MS Windows 64 Microsoft 32**

0xe0

0xe1

0xe2

0xb8

0xea

0xeb

0xec

0xed

**Задание 3 строчки wchar\_t english**

**x86-64 gcc 11.1 (linux)**

0x61

0x0

0x0

0x0

0x62

0x0

0x0

0x0

0x63

0x0

0x0

0x0

0x7a

0x0

0x0

0x0

0x6b

0x0

0x0

0x0

0x6c

0x0

0x0

0x0

0x6d

0x0

0x0

0x0

0x6e

0x0

0x0

0x0

**x86-64 clang 12.0.1 (linux)**

bczklmn\_wchar\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0x61

0x0

0x0

0x0

0x62

0x0

0x0

0x0

0x63

0x0

0x0

0x0

0x7a

0x0

0x0

0x0

0x6b

0x0

0x0

0x0

0x6c

0x0

0x0

0x0

0x6d

0x0

0x0

0x0

0x6e

0x0

0x0

0x0

**x86-64 icc 19.0.1 (linux)**

0x61

0x0

0x0

0x0

0x62

0x0

0x0

0x0

0x63

0x0

0x0

0x0

0x7a

0x0

0x0

0x0

0x6b

0x0

0x0

0x0

0x6c

0x0

0x0

0x0

0x6d

0x0

0x0

0x0

0x6e

0x0

0x0

0x0

**MS Windows 64 GCC (MinGW) 64**

0x61

0x0

0x62

0x0

0x63

0x0

0x7a

0x0

0x6b

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0x6d

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**MS Windows 64 Microsoft 32**

0x61

0x0

0x62

0x0

0x63

0x0

0x7a

0x0

0x6b

0x0

0x6c

0x0

0x6d

0x0

0x6e

0x0

**Задание 3 строчки wchar\_t russian**

**x86-64 gcc 11.1 (linux)**

0xb0

0xd0

0x0

0x0

0xb1

0xd0

0x0

0x0

0xb2

0xd0

0x0

0x0

0x91

0xd1

0x0

0x0

0xba

0xd0

0x0

0x0

0xbb

0xd0

0x0

0x0

0xbc

0xd0

0x0

0x0

0xbd

0xd0

0x0

0x0

**x86-64 clang 12.0.1 (linux)**

0x30

0x4

0x0

0x0

0x31

0x4

0x0

0x0

0x32

0x4

0x0

0x0

0x51

0x4

0x0

0x0

0x3a

0x4

0x0

0x0

0x3b

0x4

0x0

0x0

0x3c

0x4

0x0

0x0

0x3d

0x4

0x0

0x0

**x86-64 icc 19.0.1 (linux)**

0x30

0x4

0x0

0x0

0x31

0x4

0x0

0x0

0x32

0x4

0x0

0x0

0x51

0x4

0x0

0x0

0x3a

0x4

0x0

0x0

0x3b

0x4

0x0

0x0

0x3c

0x4

0x0

0x0

0x3d

0x4

0x0

0x0

**MS Windows 64 GCC (MinGW) 64**

0xb0

0xd0

0xb1

0xd0

0xb2

0xd0

0x91

0xd1

0xba

0xd0

0xbb

0xd0

0xbc

0xd0

0xbd

0xd0

**MS Windows 64 Microsoft 64**

0xe0

0xff

0xe1

0xff

0xe2

0xff

0xb8

0xff

0xea

0xff

0xeb

0xff

0xec

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0xed

0xff

**MS Windows 64 Microsoft 32**

0xe0

0xff

0xe1

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0xb8

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0xea

0xff

0xeb

0xff

0xec

0xff

0xed

0xff