Data types

Due No due date **Points** 0 **Questions** 10 **Time Limit** None

Instructions

For all the questions assume that these are bit sizes:

- byte is 8 bits
- short is 2 bytes
- int is 4 bytes
- long is 8 bytes
- long long is 8 bytes
- float is 4 bytes
- double is 8 bytes
- char is signed by default

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	16 minutes	0 out of 0

Submitted Mar 30 at 10:57am

Question 1 — 0 / 0 pts

```
unsigned long long ullVar = 1000000000;
int iVar = 0xFF11;
printf("Result is %d bytes long\n", sizeof(ullVar - iVar));
```

Output: Result is 8 bytes long

Answer 1:

Correct!

8

Question 2

0 / 0 pts

```
unsigned char ucVar1 = 128;
char cVar2 = 128;
char result = ucVar1 + cVar2;
printf("%d + %d = %d\n", ucVar1, cVar2, result);
```

Output: 128 + -128 =

0

Answer 1:

Correct!

128

Answer 2:

ou Answered

-128

rrect Answer

Nije definisano

rrect Answer

nedefinisano

Answer 3:

ou Answered

0

rrect Answer

nije definisano

rrect Answer

nedefinisano

Question 3

0 / 0 pts

```
int iVar1 = 2147483647;
int iVar2 = -2147483648;
result = iVar1 - iVar2;
printf("%d - %d = %d\n", iVar1, iVar2, result);
```

Output: 2147483647 - -2147483648 = -1

Answer 1:

Correct!

2147483647

Answer 2:

Correct!

-2147483648

Answer 3:

ou Answered

-1

rrect Answer

nedefinisano

rrect Answer

nije definisano

Question 4

0 / 0 pts

```
char c = -1;
if (c > 0)
{
    printf("This is unsigned number\n", c);
}
else
{
    printf("This is signed number\n", c);
}
```

This is unsigned number

Correct!

This is signed number

Question 5

0 / 0 pts

```
unsigned int i = 5;
int j = -20;
if (i + j > 5)
{
    printf(">5 = %d\n", i + j);
}
```

```
else
{
    printf("<5 = %d\n", i + j);
}
```

Output: >5 = -15

Answer 1:

Correct! >5

Answer 2:

ou Answered -15

rrect Answer nedefinisano

rrect Answer nije definisano

Question 6

0 / 0 pts

```
int16_t i16a = 30000;
int16_t i16b = 30000;
int32_t i32x = i16a + i16b;
printf("Result is %"PRId32" \n", i32x);
```

Output: Result is [broj]

Correct! 60000

rrect Answers 60000

Question 7

0 / 0 pts

```
uint16_t u16a = 300000;
uint16_t u16b = 300000;
```

```
uint32_t u32x = u16a + u16b;
printf("Result is %"PRIu32" \n", u32x);
```

Испис: Result is [broj]

Correct!

75712

rrect Answers

75712

Question 8

0 / 0 pts

```
float fVal = -5.0;
double dVal;
int iVal = -7;
unsigned long ulVal = 1000;
dVal = iVal * ulVal;
printf("iVal * ulVal = %lf\n", dVal);
dVal = iVal + fVal;
printf("ulVal + fVal = %lf\n", dVal);
```

Output 1: iVal * ulVal = not -5000.0

Output 2: ulVal + fVal = -12.0

Answer 1:

ou Answered

not -5000.0

rrect Answer

18446744073709545472.0

rrect Answer

18446744073709545472,0

rrect Answer

18446744073709545472.000000

Answer 2:

ou Answered

-12.0

rrect Answer

995.0

rrect Answer

995.000000

Question 9

0 / 0 pts

```
printf("Hex -1 is %x\n", -1);
```

Output: Hex -1 is [broj1]

Correct!

ffffffff

rrect Answers

ffffffff

Question 10

0 / 0 pts

```
float fNumber = 1.1;
double dNumber = 1.1;

if (fNumber == dNumber)
{
    printf("Float and Double are equal\n");
}
else
{
    printf("Float and Double are NOT equal\n");
}
```

Float and Double are equal

Correct!

"Float and Double are NOT equal