# CS&IT ENGINEERING C Programming

**Language Processor & Data Types and Operators** 

**Discussion Notes** 

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**DPP** 01

## **Topics to be Covered**









Topic Question

**Topic** Solution



**#Q.** Consider the following declarations:

P: signed short x;

**Q**: unsigned long long int x;

Which of the given declarations is/are CORRECT?



A Only P

Both P and Q

B Only Q

Neither P nor Q

### [NAT]



```
#Q.
       Consider the following program:
       #include <stdio.h>
       int main()
                       32769=20
         int x=32769;
         printf("%d", x);
         return 0;
       (Assume integer is of 2 bytes)
       The value printed is- - 32767.
```



```
#Q.
       Consider the following program:
                                              (ch)
       #include <stdio.h>
                               1416
       int main()
                                   L 127
        char ch=141
        printf("%d",ch);
        return 0;
                                                     Anx [B]
       The output is-
        Compiler Error
                                             -115
                                             141
        -128
```



```
#Q.
      Consider the following function:
      #include <stdio.h>
      int main()
                              Un signed value -13+ = 256-134
        char ch = -134
        printf("%c", ch);
        return 0;
```

- - A
- Compiler Error

The output is-

Garbage

Z

### [NAT]



```
Consider the following program:
#Q.
      #include <stdio.h>
      int main()
                              Ch = 125 + 6 = 131 4 \text{ Str} 127
        char ch = 125;
                                           -128 - 127 - 126 \left(-125\right)
        ch=ch+6;
        printf("%d", ch);
        return 0;
      The output is- -125
```

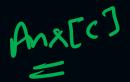
### [NAT]

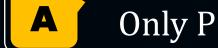


```
#Q.
     Consider the following program:
     #include <stdio.h>
                              21= -32769
printed value -32769
     int main()
       int x=-32769;
                                            = \frac{65536 - 32769}{32767}
       printf("%d", x);
       return 0;
     (Assume integer is of 2 bytes)
     The output is: 32767.
```



- **#Q.** Consider the following two statements:
  - P: C standard specifies fixed number of bytes for every data type.
  - Q: The size order for int, short and long data type is short<int<long Which of the following statements is/are CORRECT?









Both P and Q



#Q. In C programming language, after executing the following code what are the values of x, y and z?

**A** 
$$x = 22, y = 10, z = 12$$

$$x = 24, y = 11, z = 13$$

$$x = 24$$
,  $y = 10$ ,  $z = 12$ 

$$x = 22$$
,  $y = 11$ ,  $z = 13$ 





# THANK - YOU