

William Poole

1. False
2. True
3. False (No spaces in variable names)
4. False
5. False (%f is float so it would be a float)
6. False (D3 is PE13)
7. True
8. True (while (x<21) or something would do it)
9. False
10. True ($2^8 = 256$ max 8 bit is 255, $255 * 2 = 510$, $2^9 = 512$, max 9 bit is $512 - 1$ or 511, $511 > 520$)
11. c
12. b
13. A
14. b
15. `if((c>a)&&(c>b))`

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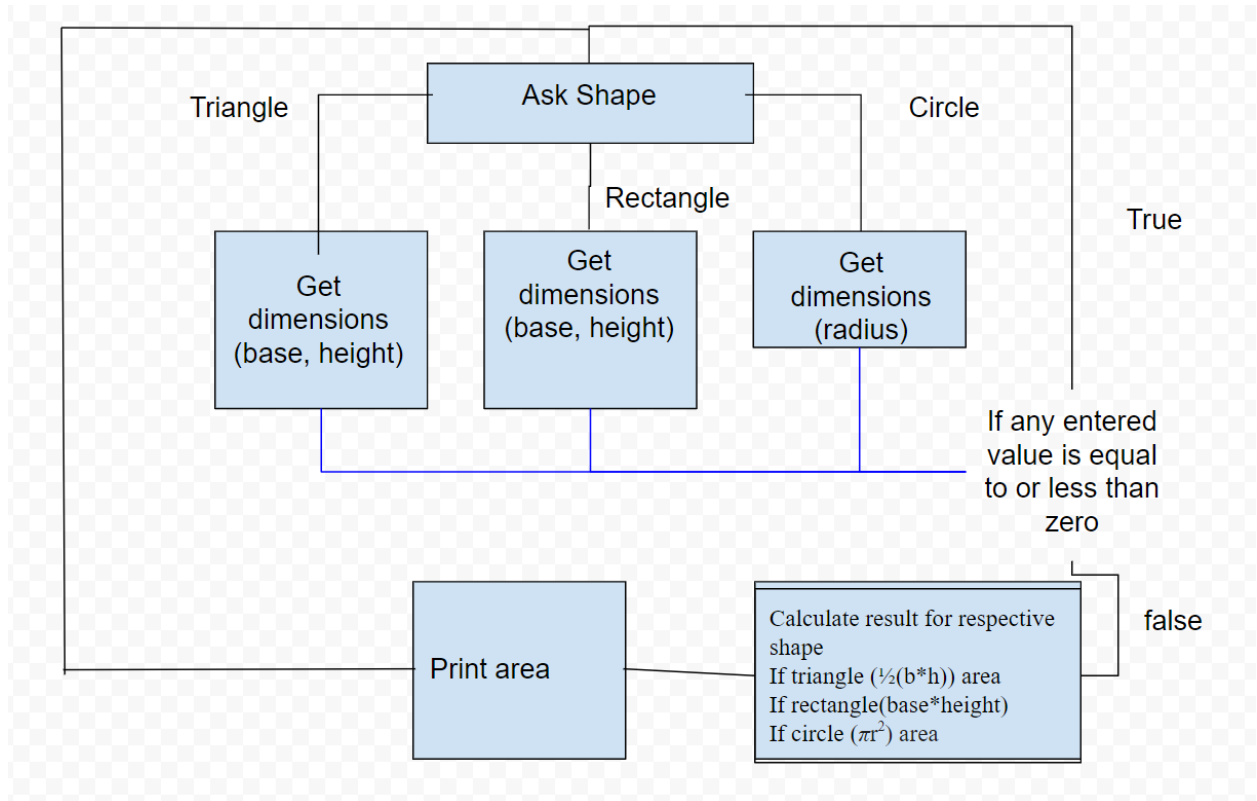
`if((a>c)&&(b>c))`

`if((c>a)&&(c<b))`

`if((c*2<=a)&&(c*2<=b))`

`if((((a>0)&&(a<5)) || (b<(c/2)))&&((a+b)<=c*2))`

16.



17.

```

#include <stdio.h>

int main()
{
    int step, test, number;
    float memory;
    while(1){ //generates Loop
        test=0; //resets variable test
        printf("Enter Value for digit test: \n\r");
        scanf("%d", &number); //recieves number for digit test
        memory=number; //stores number in memory
        for(step=0; step<101; ++step){ //creates for-loop to test max one hundred digits
            number=number/10; //divides to reduce digits
            test=test+1; //documents times divided
            if(number<=0){ //Once less than 0 all digits have been counted
                printf("%f was %d digits\n\r", memory, test); //prints result with memory
                break; //jumps out of test loop to ask again
            }
        }
    }
}

```

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int main()

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    int step, test, number;

    float memory;

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        test=0; //resets variable test

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            }

        }

    }

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```