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1.

2. B is not equivalent to others.

3. same statements repeated 8 total times

```
as2.c ×
                                                                     ■ Console Shell
  1 #include <stdio.h>
                                                                          > make -s
  2 int main(void)
                                                                          ./main
  3 , {
                                                                          1 2 4 8 16 32 64 128 3
      if (i <= 128)
        printf("%d ", i);
       if (i <= 128)
 13 > { ... }
       if (i <= 128)
 18 > { ... }
       if (i <= 128)
 23 > { ... }
       if (i <= 128)
 28 > { ... }
       if (i <= 128)
 33 > { ... }
 38 > { ... }
       if (i <= 128)
 43 > { ... }
     return 0;
```

4.

```
as4.c ×
                                                                             Console Shell
   1 #include <stdio.h>
                                                                              > make -s
  2 int main(void)
                                                                              ./main
  3 <sub>v</sub> {
                                                                             0 - 1
        int i, num = 2;
                                                                             1 - 2
                                                                              2 - 4
                                                                             3 - 8
        for (int i = 0; i < 10; i++)
                                                                             4 - 16
                                                                             5 - 32
          if (i == 0)
                                                                             6 - 64
            printf("%d - 1\n", i);
                                                                             7 - 128
                                                                             8 - 256
            num = num \star 2;
                                                                              9 - 512
            printf("%d - %d\n", i+1, num);
                                                                              10 - 1024
                                                                              > []
        return 0;
```

5.

```
as5.c ×
                                                                      ■ Console Shell
                                                                           ∍ make -s
  2 int main(void)
                                                                            ./main
                                                                           Enter number of days in month: 31
        int num_day, start_day;
                                                                           Enter the starting day of the week (1=Sun, 7=Sat): 3
                                                                             1 2 3 4 5
6 7 8 9 10 11 12
        printf("Enter number of days in month: ");
                                                                            13 14 15 16 17 18 19
        scanf("%d",&num_day);
                                                                            20 21 22 23 24 25 26
                                                                            27 28 29 30 31 🗍
        printf("Enter the starting day of the week (1=Sun, 7=Sat):
       scanf("%d",&start_day);
        for (int i = 1; i < start_day; i++)</pre>
        for (int i = 1; i <= num_day; i++)</pre>
          if( (start_day + i - 1 ) % 7 == 0)
```

https://github.com/Ron-Paolo-Molejona/CMSC21/tree/main/Lecture4/Assignments