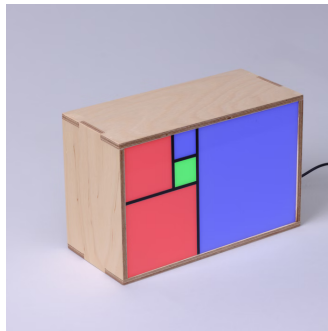


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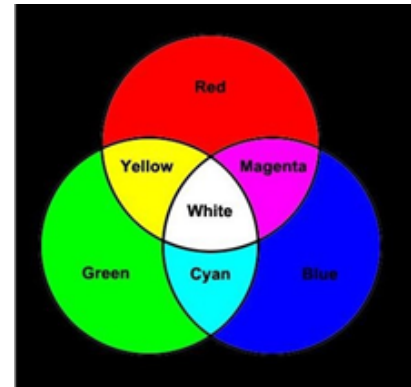


PROBLEM: Determine all of the ways to represent a given time by using ACSL's version of the Fibonacci clock.

The Fibonacci clock in this problem has more colors than the clock you worked on in Contest #1. Here, each square can be unlit (black), or lit with red, green, blue, cyan, magenta, yellow, or white lights. All red squares represent only the number of hours; green squares represent only minutes; and blue squares represent only seconds.

Intersecting regions (in the Venn Diagram shown) are used to represent multiple values: yellow represents both hours and minutes; magenta represents both hours and seconds; cyan represents both minutes and seconds; and white represents hours, minutes, and seconds.

For both minutes and seconds, the sum of the values of the square's lengths is multiplied by 5 so that the number of minutes and seconds are in intervals of 5, between 0 and 55 inclusive.



Often, there is more than one way to display a given time. You will be given a time in *hh:mm:ss* format. *hh* will be between 0 and 11; *mm* between 0 and 55; and *ss* between 0 and 55, all inclusive. The values of *mm* and *ss* will be a multiple of 5. Your task is to output all of the configurations of the clock that display the given time. Represent each configuration as a 5-character string showing the colors of the 1x1, 1x1, 2x2, 3x3, and 5x5 squares in that order. The characters in the strings are the first letters of the colors (*rgbycmw*) or *k* for black.

For example, the time 11:05:10 can be displayed in the following 8 ways shown in alphabetical order:

bwrrr	cmrrr	grmrr	kymrr

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mcrrr	rgmrr	wbrrr	ykmrr
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INPUT: A time in *hh:mm:ss* format between 00:00:00 and 11:55:55, inclusive.

OUTPUT: Output all 5-character configurations of the clock that display the given time in alphabetical order, with a single space between each.

SAMPLE INPUT:

1. 11:05:10
2. 11:55:45
3. 00:05:20
4. 00:20:00
5. 03:15:40

SAMPLE OUTPUT:

1. bwrrr cmrrr grmrr kymrr mcrrr rgmrr wbrrr ykmrr
2. bwryw byyww cmwyw cryww gmyww kwyww mcwyw mgyww rcyww wbyww
wkyww ybyww
3. bcbkk bgkbb cbbkk ckbbk gbkkb kckbb
4. gggkk gkkgk kgkgk
5. bgcrb bkbyb brmgb bywkb ckerb crwkb gcbcrb gkgmb gmwkb grybb
kbbbyb kccrb kggmb kkkwb kmmgb krrcb kwwkb kyybb mgwkb mkmgb
rbmgb rcwkb rgybb rkrcb wkwkb ybwkb ykybb

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TEST DATA

TEST INPUT:

1. 04:15:00
2. 08:00:25
3. 05:10:40
4. 09:45:50
5. 10:20:15
6. 11:55:55
7. 00:00:00
8. 07:35:35
9. 01:45:05
10. 06:30:30

TEST OUTPUT:

1. grgrk krkyk kygrk rggrk rkkyk rrrgk ryykk ykgrk yrykk
2. bbkmr bmrbr kkbmr kkkrm krmb rrrkm mbrbr rkmb rkrkm
3. bkckm bkwr b cgbkm cgmrb gcbkm gcmrb ggkbm ggrmb kbckm
kbwr b kkgbm kkymb mrcrb rmcrr rrgmb wybrb ywbrb yykmb
4. bwkww cmkww cwgmw grbww gycmw kybww mckww mwrcw rgbww
rymcw wbkww wcgmw wmrcw wwybw ygcmw ykbww yrmcw yywbw
5. bgmyr cgwrr ckmyr gbmyr gcwrr ggymr gkrwr kcmr kgrwr
mybyr rwbyr rykwr wrbyr wycrr ymbyr yrkwr ywrr yygmr
6. bywww crwww gmwww kwww mgwww rcwww wkwww ybwww
7. kkkkk
8. bbwby bbykw ccmb ccrkw ccwrr ccygm ggmkw ggwgm kkwkw
mmby mmgkw mmwmg mmyrc rrrkw rrrc wwby wwrr wggm
wwkw wmmg wrrc wwwk wwyb yybk yygm ymyrc yywyb
9. bykkg crkkg cykkg gmkkg gwkg kwkg mgkg rckkg wggkg
wkkg ybkkg ycgkg
10. bybby byrr bygm bykkw bymm byrr byww byyyb crbby
crrc rrgm crkkw crmmg crrc rrrw cryb gmbby gmrr
gmgm gmkkw gmmg gmrr gmww gmyb kbby krrc kwgm
kwkw kmmg krrc kwwk kwyb mgbby mrrc mggm mgkw
mrmg mrrc mgww mgyb rbbby rrrc rrgm rckw rmmg
rrrc rrrw rryb kbby krrc wkgm wkkw kmmg krrc
kwkw kyyb ybby ybrr ybgm ybkw ymmg yrrc ybww
ybyb