

Quiz #1 (CSE4190.410)

September 16, 2013 (Monday)

Name: _____ Dept: _____ ID No: _____

1. (10 points) Fill in the blanks in the following PostScript program.

```

    /depth 0 def
    /maxdepth _____ def (+3)
    /down {/depth depth 1 add def} def
    /up {/depth depth 1 sub def } def

    /DoPentagon
    {gsave
    newpath
    0 72 moveto
(+1)  _____ 0 72 _____ (+2)
    _____ 0 72 _____
    _____ 0 72 _____
    closepath
    fill stroke
    grestore} def

    /FractPentagon
    {gsave
    0 72 translate

    down

    depth maxdepth eq
(+1) {_____} if

    depth maxdepth le
    {0.5 0.5 scale
(+3) _____ rotate
    1 0 0 setrgbcolor FractPentagon
    72 rotate 0 1 0 setrgbcolor FractPentagon
    72 rotate 1 1 0 setrgbcolor FractPentagon
    72 rotate 0 1 1 setrgbcolor FractPentagon
    72 rotate 0 0 1 setrgbcolor FractPentagon} if

    up
    grestore} def

    1.5 1.5 scale
    90 180 translate
    FractPentagon
    showpage
```

