
Sebastian Roubert sr949, Colin Whitten csw98

Number 1

```
epsCalc = 1; %initial guess
found = false; %logical variable for while loop

while (found == false)

    if (epsCalc/2) == 0
        %enter this section right after found eps(0)
        found = true;
    else
        epsCalc = epsCalc/2;
    end

end

epsCalc - eps(0)

%Notice how the difference between our calculated machine epsilon and
%eps(0) is 0.

ans =

    0
```

Published with MATLAB® R2015b