```
bisect (0,10)

% a and b are the initial guesses
function root = bisect(a,b)
    while f(a)*f(b)<0
        c = (a+b)/2;
        if f(c) == 0
            break
        end
        if(f(a)*f(c)<0)
            b = c;
        else
            a = c;
        end
    end
    root = c;
end

% This is the function for which we apply the algorithm
function F = f(x)
    F = x^2 + 2*x -7;
    return
end
```

```
ans =

    1.8284
```

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