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  script segmentB
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  This is a Matlab script that will run the Bayesian relaxation
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  for segmenting an image. You should select two images from the
  homework Matlab file and perform segmentation on them.
  This code uses some Matlab tricks to be somewhat generic. First,
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  all arguments are encapsulated into a cell array. This works as
  follows. The cell array belows consists of two arguments:
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  >> sampleCellArray = {40, 34};
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  that when expanded as an argument to a function, provides two
  inputs to the function,
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  >> plus( sampleCellArray{:} )
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  The output should be the addition of the two arguments:
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  ans =
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  Anyhow, this function expectes the same, but the arguments are
  consistent with what the segKmeans function expects.
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close all
load('segment.mat');
picks = [1 2];
for i = 1:length(picks)
 switch (picks(i))
   case 1,
     images{i} = westin;
     iparms{i} = { 10 , [3, 10, 60, 140, 150], 1 };
   case 2,
     images{i} = fish04;
     iparms{i} = { 10 , [1, 5, 40, 80, 120], 1 };
 end
end
for i = 1:length(images)
  [segimg{i}, K, nmeans{i}] = segBayes(double(images{i}), iparms{i}{:});
 figure(3*i-2);
 imagesc(images{i});
 colormap('gray');
 axis('image');
 figure(3*i-1);
 imagesc(segimg{i});
 colormap('default');
 axis('image');
```

```
ans =

7.3487 35.7866 79.4104 121.9027 169.7822

ans =

5.2687 15.5242 45.8232 80.0602 111.4166
```











