Main Function

Initialize a region

Put the region into openset

openset == NULL

YES

NO

Get a region from the openset

Put the region into the closedset

Calculate the adjacency regions

Each adjacency region appears
in closedset or openset

NO

Put the new regions into openset

Reflect the regions in the closedset

Stop

Adjacency Regions

Get a point and distance on this region
based on Interior Point Method

Get some strict hyperplanes
based on the distance

Put the strict hyperplanes into F set

Return the strict hyperplanes

Change the sign of each strict hyperplane
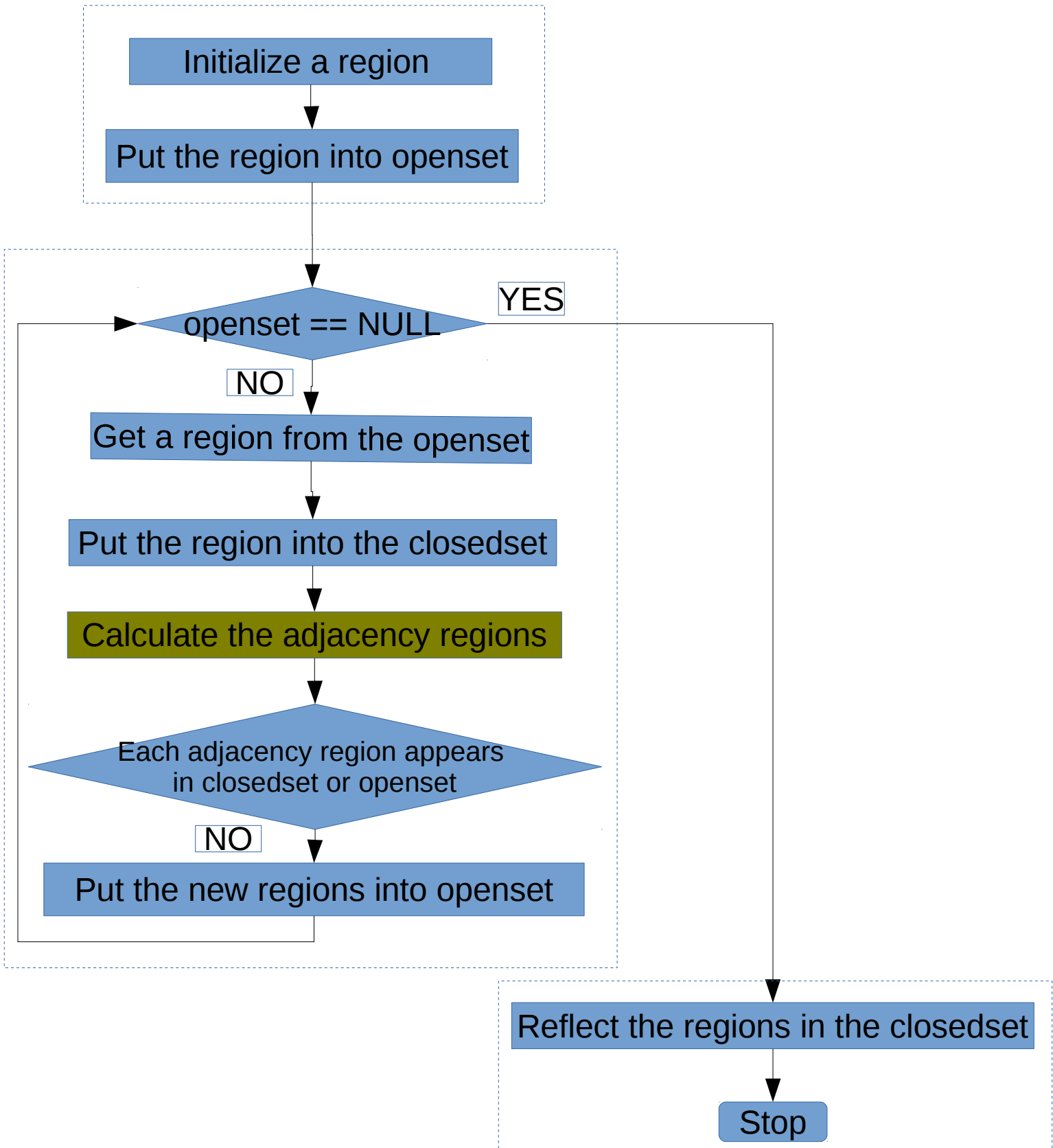to get an adjacency region

the sign of the hyperplane
is not changed

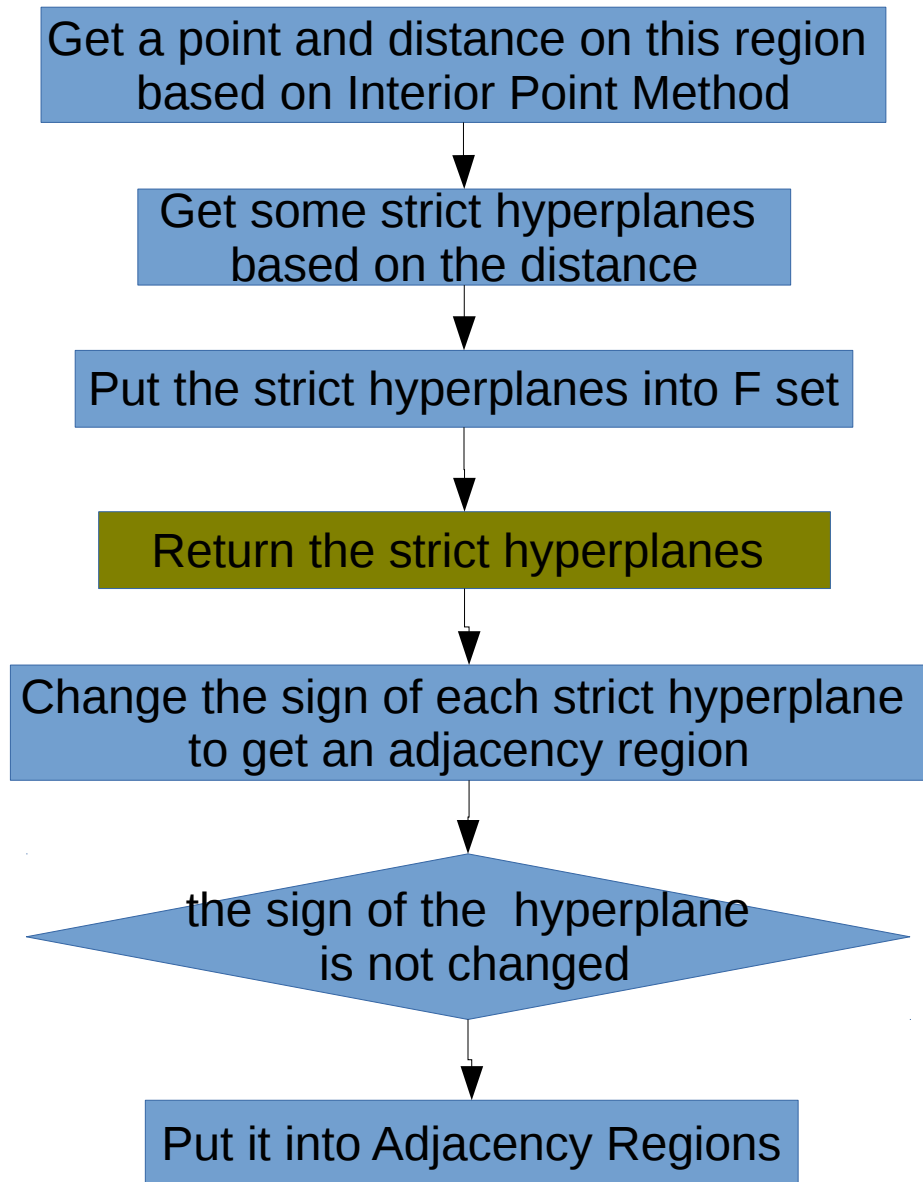Put it into Adjacency Regions

Get the Strict Hyperplane

For each hyperplane without the F set

Trim it

Get a point and distance based on the left hyperplane

The distance and point is changed

Put this hyperplane into F set

Add it