**Binary Search Algorithm**

**(CPP)**

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| int binarySearch(const int array[], int size, int value)  {  int first = 0,  last = size – 1,  middle,  position = -1;  bool found = false;  while(!found && first <= last)  {  middle = (first + last) / 2;  if(array[middle] == value)  {  found = true;  position = middle;  }  else if (array[middle] > value)  last = middle - 1;  else  first = middle + 1;  }  return position;  } |