```
private void tryToFillQueue(NNResultQueue queue, Deque<Node>
nodeStack, BitSetContext bitSetContext,
                           DisCache disCache) {
      ....//判断结果堆是否已经填满
      Node last = nodeStack.pop();
      Node parent = nodeStack.peek();
      assert !parent.isLeaf();
      if (last.isLeaf()) {//尝试用叶节点的所有数据点填满结果堆
          IntArrayList children = last.getChildren();
          for (int i = 0; i < children.size(); i++) {
   int docId = children.get(i);</pre>
             queue.insert(docId, disCache.distance(docId));
             ++queryStat.distanceFunctionLeafInvocations;
          }
          int siblingSize = parent.getCBounds().size() / 2;
          Node[] siblingNodes = parent.getChildrenNodes();
          for (int i = 0; i < siblingSize; i++) {
             if (siblingNodes[i] == last) {
                 bitSetContext.reuse.set(i);
                 break:
             }
          }
           ....//判断结果堆是否已经填满
          for (int i = 0; i < siblingSize; i++) {
             if (siblingNodes[i] == last) {
                continue;//跳过当前节点,因为之前已经加过
             ....//以兄弟节点填满结果堆
           }
      } else {
          Deque<Node> tmpNodeStack = new LinkedList<>();
          Deque<BitSet> tmpBitSetStack = new LinkedList<>();
          // tmpBitSetStack 作为访问记录,防止重复访问分支fillQueueIfNonLeaf(last, queue, tmpNodeStack,
               disCache, tmpBitSetStack, queryStat);
          //尝试用非叶节点填满结果堆
          while (!tmpNodeStack.isEmpty()) {
              nodeStack.push(tmpNodeStack.removeLast());
           }//如果填满了,要将所经之节点都压入 nodestack
          nodeStack.pop();
           //最后一个叶节点没有 visited, 所以要把叶节点去掉, 否则比
             bitsetContext 多了一个
             while (!tmpBitSetStack.isEmpty()) {
                     bitSetContext.bitSetStack.
                         push(tmpBitSetStack.pop());
             //保存分支访问记录
          }
      }
   }
```