



```
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//quick binary search of objects
//combo of pseudocode and Java
```

## Binary Search

```
{
    size = list.getsize();
    left = 0;
    right = size;
    endloop = false;
    key;           //search item entered by user

    Search
    {
        while (endloop = false)           //beginning of loop
        {
            if (right < left)
            {
                endloop = true
                System.out.println ("Search was not found, or list is empty")
            }

            else ()
            {
                mid = ((right-left)/2) + left;

                else if (list[mid] < key)           //change lower limit
                {
                    right = mid - 1;
                }

                else if (list[mid] > key)           //change upper limit
                {
                    left = mid + 1;
                }

                else ()           //return the search index if it's equal
                {
                    return list[mid];
                    endloop = true;
                }
            }
        }
    }
}
```