

```

1  import java.io.IOException;
2  import java.util.StringTokenizer;
3
4  import org.apache.hadoop.conf.Configuration;
5  import org.apache.hadoop.fs.Path;
6  import org.apache.hadoop.io.IntWritable;
7  import org.apache.hadoop.io.Text;
8  import org.apache.hadoop.mapreduce.Job;
9  import org.apache.hadoop.mapreduce.Mapper;
10 import org.apache.hadoop.mapreduce.Reducer;
11 import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
12 import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
13 import org.apache.hadoop.util.GenericOptionsParser;
14
15 public class solution2 {
16
17     public static void main(String[] args) throws Exception {
18         Configuration conf = new Configuration();
19         String[] otherArgs = new GenericOptionsParser(conf, args).getRemainingArgs();
20         conf.set("value1", otherArgs[0]);
21         conf.set("value2", otherArgs[1]);
22         conf.set("value3", otherArgs[2]);
23         Job job = new Job(conf, "IN Filter");
24         job.setJarByClass(solution2.class);
25         job.setMapperClass(FilterMapper.class);
26         job.setOutputKeyClass(Text.class);
27         job.setOutputValueClass(IntWritable.class);
28         job.setNumReduceTasks(0); // Set number of reducers to zero
29         FileInputFormat.addInputPath(job, new Path(args[3]));
30         FileOutputFormat.setOutputPath(job, new Path(args[4]));
31         System.exit(job.waitForCompletion(true) ? 0 : 1);
32     }
33
34     public static class FilterMapper
35         extends Mapper<Object, Text, Text, IntWritable>{
36
37         private final static IntWritable counter = new IntWritable(0);
38         private Text word = new Text();
39         private Integer total;
40         private Integer value1;
41         private Integer value2;
42         private Integer value3;
43         public void map(Object key, Text value, Context context
44             ) throws IOException, InterruptedException {
45             StringTokenizer itr = new StringTokenizer(value.toString());
46
47             value1 = Integer.parseInt( context.getConfiguration().get("value1") );
48             value2 = Integer.parseInt( context.getConfiguration().get("value2") );
49             value3 = Integer.parseInt( context.getConfiguration().get("value3") );
50
51             while (itr.hasMoreTokens()) {
52                 word.set(itr.nextToken());
53                 total = Integer.parseInt(itr.nextToken());
54                 if ( total == value1 || total == value2 || total == value3 )
55                     { counter.set( total );
56                     context.write(word, counter); }
57             }
58         }
59     }
60
61 }

```