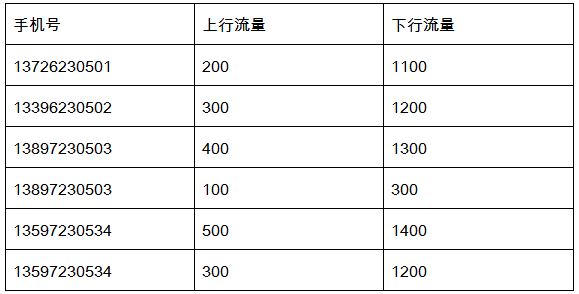
## 作业3：

业务背景：移动公司日志，一般记录以下几个数据，手机号码，上行流量，下行流量。目的统计一个手机号码某一个时间段的产生的总流量，要把同一个用户的上行流量、下行流量进行累加，并计算出综合。并按照一定的规则排序（升序、降序、地区等，可选择一种）。

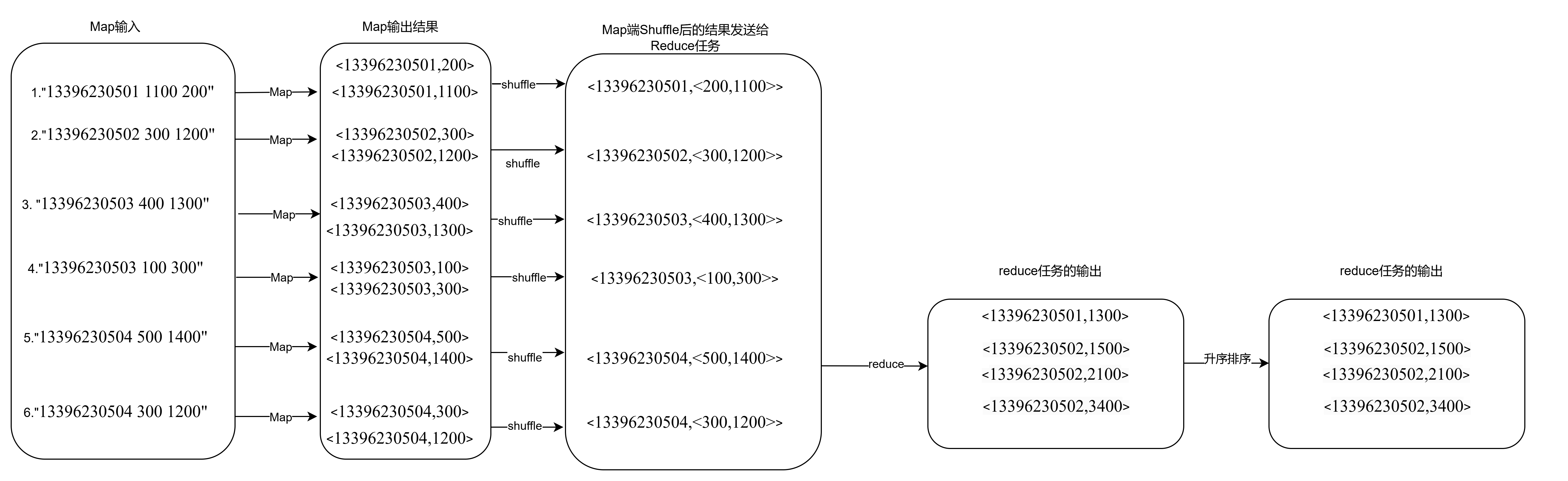
例如下面表格中的13897230503有两条记录，就要对这两条记录进行累加，计算总和，得到： 13897230503，500，1600，2100

问题：庞大的数据源将从本地上传到HDFS上，被逻辑切分多个块，然后进行分布式并行计算统计总流量。如何基于MapReduce计算框架实现上述业务，要求给出具体实现过程以及过程示意图（无需代码）。



1.

%3CmxGraphModel%3E%3Croot%3E%3CmxCell%20id%3D%220%22%2F%3E%3CmxCell%20id%3D%221%22%20parent%3D%220%22%2F%3E%3CmxCell%20id%3D%222%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BexitX%3D1.008%3BexitY%3D0.098%3BexitDx%3D0%3BexitDy%3D0%3BexitPerimeter%3D0%3B%22%20edge%3D%221%22%20source%3D%2216%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%22290%22%20y%3D%22110%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22350%22%20y%3D%2288%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%223%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BexitX%3D1.008%3BexitY%3D0.098%3BexitDx%3D0%3BexitDy%3D0%3BexitPerimeter%3D0%3B%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%22281%22%20y%3D%2288%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22350%22%20y%3D%2288%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%224%22%20value%3D%22shuffle%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%223%22%3E%3CmxGeometry%20x%3D%22-0.3101%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%225%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BexitX%3D1.008%3BexitY%3D0.098%3BexitDx%3D0%3BexitDy%3D0%3BexitPerimeter%3D0%3BfontStyle%3D1%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%22280%22%20y%3D%22150%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22349%22%20y%3D%22150%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%226%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BexitX%3D1.008%3BexitY%3D0.098%3BexitDx%3D0%3BexitDy%3D0%3BexitPerimeter%3D0%3BfontStyle%3D1%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%22280%22%20y%3D%22215%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22349%22%20y%3D%22215%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%227%22%20value%3D%22shuffle%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%226%22%3E%3CmxGeometry%20x%3D%22-0.3681%22%20y%3D%22-1%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%228%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BexitX%3D1.008%3BexitY%3D0.098%3BexitDx%3D0%3BexitDy%3D0%3BexitPerimeter%3D0%3BfontStyle%3D1%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%22280%22%20y%3D%22269%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22349%22%20y%3D%22269%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%229%22%20value%3D%22shuffle%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%228%22%3E%3CmxGeometry%20x%3D%220.0087%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2210%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BexitX%3D1.008%3BexitY%3D0.098%3BexitDx%3D0%3BexitDy%3D0%3BexitPerimeter%3D0%3BfontStyle%3D1%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%22280%22%20y%3D%22340%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22349%22%20y%3D%22340%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2211%22%20value%3D%22shuffle%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%2210%22%3E%3CmxGeometry%20x%3D%22-0.1072%22%20y%3D%22-4%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2212%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BexitX%3D1.008%3BexitY%3D0.098%3BexitDx%3D0%3BexitDy%3D0%3BexitPerimeter%3D0%3BfontStyle%3D1%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%22279%22%20y%3D%22410%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22348%22%20y%3D%22410%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2213%22%20value%3D%22shuffle%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%2212%22%3E%3CmxGeometry%20x%3D%22-0.0783%22%20y%3D%222%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2214%22%20value%3D%22%26lt%3Bspan%20style%3D%26quot%3Bfont-size%3A%2011px%3B%20background-color%3A%20rgb(255%2C%20255%2C%20255)%3B%26quot%3B%26gt%3Bshuffle%26lt%3B%2Fspan%26gt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3Bautosize%3D1%3BstrokeColor%3Dnone%3BfillColor%3Dnone%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22280%22%20y%3D%22148%22%20width%3D%2260%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2215%22%20value%3D%22%22%20style%3D%22group%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22120%22%20y%3D%2220%22%20width%3D%22160%22%20height%3D%22420%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2216%22%20value%3D%22%22%20style%3D%22rounded%3D1%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%2215%22%3E%3CmxGeometry%20y%3D%2230%22%20width%3D%22160%22%20height%3D%22390%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2217%22%20value%3D%22%26amp%3Blt%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230501%2C200%26lt%3B%2Fspan%26gt%3B%26amp%3Bgt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2215%22%3E%3CmxGeometry%20x%3D%2210%22%20y%3D%2230%22%20width%3D%22140%22%20height%3D%2240%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2218%22%20value%3D%22%26amp%3Blt%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230502%2C300%26lt%3B%2Fspan%26gt%3B%26amp%3Bgt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2215%22%3E%3CmxGeometry%20x%3D%225%22%20y%3D%22100%22%20width%3D%22150%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2219%22%20value%3D%22%26amp%3Blt%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230503%2C400%26lt%3B%2Fspan%26gt%3B%26amp%3Bgt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2215%22%3E%3CmxGeometry%20y%3D%22165%22%20width%3D%22150%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2220%22%20value%3D%22%26amp%3Blt%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230503%2C13%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgba(0%2C%200%2C%200%2C%200)%3B%20font-family%3A%20monospace%3B%20font-size%3A%200px%3B%20text-align%3A%20start%3B%20text-wrap%3A%20nowrap%3B%26quot%3B%26gt%3B%253CmxGraphModel%253E%253Croot%253E%253CmxCell%2520id%253D%25220%2522%252F%253E%253CmxCell%2520id%253D%25221%2522%2520parent%253D%25220%2522%252F%253E%253CmxCell%2520id%253D%25222%2522%2520value%253D%2522%2526amp%253Blt%253B%2526lt%253Bspan%2520style%253D%2526quot%253Bfont-family%253A%2520%2526amp%253Bquot%253BTimes%2520New%2520Roman%2526amp%253Bquot%253B%253B%2520font-size%253A%252016px%253B%2526quot%253B%2526gt%253B13396230503%252C400%2526lt%253B%252Fspan%2526gt%253B%2526amp%253Bgt%253B%2522%2520style%253D%2522text%253Bhtml%253D1%253Balign%253Dcenter%253BverticalAlign%253Dmiddle%253BwhiteSpace%253Dwrap%253Brounded%253D0%253B%2522%2520vertex%253D%25221%2522%2520parent%253D%25221%2522%253E%253CmxGeometry%2520x%253D%2522150%2522%2520y%253D%2522220%2522%2520width%253D%2522150%2522%2520height%253D%252230%2522%2520as%253D%2522geometry%2522%252F%253E%253C%252FmxCell%253E%253C%252Froot%253E%253C%252FmxGraphModel%253E%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B00%26lt%3B%2Fspan%26gt%3B%26amp%3Bgt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2215%22%3E%3Cmx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3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Blt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bforced-color-adjust%3A%20none%3B%20color%3A%20rgb(0%2C%200%2C%200)%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20font-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230502%2C2100%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Bgt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bdiv%26gt%3B%26lt%3Bbr%2F%26gt%3B%26lt%3B%2Fdiv%26gt%3B%22%20style%3D%22rounded%3D1%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22690%22%20y%3D%22290%22%20width%3D%22240%22%20height%3D%22140%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2242%22%20value%3D%22%26amp%3Blt%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230501%2C1300%26lt%3B%2Fspan%26gt%3B%26amp%3Bgt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22710%22%20y%3D%22290%22%20width%3D%22200%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2243%22%20value%3D%22%26lt%3Bdiv%20style%3D%26quot%3Btext-align%3A%20center%3B%26quot%3B%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bbackground-color%3A%20initial%3B%26quot%3B%26gt%3Breduce%E4%BB%BB%E5%8A%A1%E7%9A%84%E8%BE%93%E5%87%BA%26lt%3B%2Fspan%26gt%3B%26lt%3B%2Fdiv%26gt%3B%22%20style%3D%22text%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22755%22%20y%3D%22250%22%20width%3D%22100%22%20height%3D%2240%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2244%22%20value%3D%22%26lt%3Bbr%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Blt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bforced-color-adjust%3A%20none%3B%20color%3A%20rgb(0%2C%200%2C%200)%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20font-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230502%2C3400%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Bgt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bdiv%26gt%3B%26lt%3Bbr%2F%26gt%3B%26lt%3B%2Fdiv%26gt%3B%22%20style%3D%22text%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22740%22%20y%3D%22360%22%20width%3D%22220%22%20height%3D%2210%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2245%22%20value%3D%22%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Blt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bforced-color-adjust%3A%20none%3B%20color%3A%20rgb(0%2C%200%2C%200)%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20font-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230502%2C1500%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Bgt%3B%26lt%3B%2Fspan%26gt%3B%22%20style%3D%22text%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22740%22%20y%3D%22320%22%20width%3D%22220%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2246%22%20value%3D%22%22%20style%3D%22group%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%22-170%22%20y%3D%2220%22%20width%3D%22210%22%20height%3D%22420%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2247%22%20value%3D%22%22%20style%3D%22rounded%3D1%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%2246%22%3E%3CmxGeometry%20y%3D%2230%22%20width%3D%22210%22%20height%3D%22390%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2248%22%20value%3D%222.%26quot%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230502%20300%201200%26quot%3B%26lt%3B%2Fspan%26gt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2246%22%3E%3CmxGeometry%20x%3D%226.5625%22%20y%3D%22100%22%20width%3D%22196.875%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2249%22%20value%3D%223.%20%26quot%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230503%20400%201300%26quot%3B%26lt%3B%2Fspan%26gt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2246%22%3E%3CmxGeometry%20y%3D%22165%22%20width%3D%22196.875%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2250%22%20value%3D%225.%26quot%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230504%20500%201400%26quot%3B%26lt%3B%2Fspan%26gt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2246%22%3E%3CmxGeometry%20y%3D%22290%22%20width%3D%22196.875%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2251%22%20value%3D%221.%26quot%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230501%201100%20200%26quot%3B%26lt%3B%2Fspan%26gt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2246%22%3E%3CmxGeometry%20x%3D%2213.125%22%20y%3D%2260%22%20width%3D%22183.75%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2252%22%20value%3D%224.%26quot%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230503%20100%20300%26quot%3B%26lt%3B%2Fspan%26gt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2246%22%3E%3CmxGeometry%20y%3D%22230%22%20width%3D%22196.875%22%20height%3D%2220%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2253%22%20value%3D%226.%26quot%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230504%20300%201200%26quot%3B%26lt%3B%2Fspan%26gt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2246%22%3E%3CmxGeometry%20y%3D%22360%22%20width%3D%22196.875%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2254%22%20value%3D%22Map%E8%BE%93%E5%85%A5%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%2246%22%3E%3CmxGeometry%20x%3D%2249.21875%22%20width%3D%2298.4375%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2255%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BexitX%3D0.998%3BexitY%3D0.119%3BexitDx%3D0%3BexitDy%3D0%3BexitPerimeter%3D0%3BentryX%3D-0.017%3BentryY%3D0.117%3BentryDx%3D0%3BentryDy%3D0%3BentryPerimeter%3D0%3B%22%20edge%3D%221%22%20source%3D%2247%22%20target%3D%2216%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%2260%22%20y%3D%22110%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22110%22%20y%3D%2260%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2256%22%20value%3D%22Map%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%2255%22%3E%3CmxGeometry%20x%3D%220.097%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2257%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BentryX%3D-0.017%3BentryY%3D0.117%3BentryDx%3D0%3BentryDy%3D0%3BentryPerimeter%3D0%3B%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%2240%22%20y%3D%22140%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22117%22%20y%3D%22140%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2258%22%20value%3D%22Map%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%2257%22%3E%3CmxGeometry%20x%3D%220.097%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2259%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BentryX%3D-0.017%3BentryY%3D0.117%3BentryDx%3D0%3BentryDy%3D0%3BentryPerimeter%3D0%3B%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%2243%22%20y%3D%22210%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22120%22%20y%3D%22210%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2260%22%20value%3D%22Map%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%2259%22%3E%3CmxGeometry%20x%3D%220.097%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2261%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BentryX%3D-0.017%3BentryY%3D0.117%3BentryDx%3D0%3BentryDy%3D0%3BentryPerimeter%3D0%3B%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%2241%22%20y%3D%22269.5%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22118%22%20y%3D%22269.5%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2262%22%20value%3D%22Map%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%2261%22%3E%3CmxGeometry%20x%3D%220.097%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2263%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BentryX%3D-0.017%3BentryY%3D0.117%3BentryDx%3D0%3BentryDy%3D0%3BentryPerimeter%3D0%3B%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%2240%22%20y%3D%22334.5%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22117%22%20y%3D%22334.5%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2264%22%20value%3D%22Map%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%2263%22%3E%3CmxGeometry%20x%3D%220.097%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2265%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BentryX%3D-0.017%3BentryY%3D0.117%3BentryDx%3D0%3BentryDy%3D0%3BentryPerimeter%3D0%3B%22%20edge%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%2240%22%20y%3D%22400%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%22117%22%20y%3D%22400%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2266%22%20value%3D%22Map%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%2265%22%3E%3CmxGeometry%20x%3D%220.097%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2267%22%20value%3D%22%22%20style%3D%22endArrow%3Dclassic%3Bhtml%3D1%3Brounded%3D0%3BexitX%3D0.864%3BexitY%3D1%3BexitDx%3D0%3BexitDy%3D0%3BexitPerimeter%3D0%3B%22%20edge%3D%221%22%20source%3D%2245%22%20parent%3D%221%22%3E%3CmxGeometry%20width%3D%2250%22%20height%3D%2250%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%22980%22%20y%3D%22340%22%20as%3D%22sourcePoint%22%2F%3E%3CmxPoint%20x%3D%221010%22%20y%3D%22350%22%20as%3D%22targetPoint%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2268%22%20value%3D%22%E5%8D%87%E5%BA%8F%E6%8E%92%E5%BA%8F%22%20style%3D%22edgeLabel%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3Bresizable%3D0%3Bpoints%3D%5B%5D%3B%22%20vertex%3D%221%22%20connectable%3D%220%22%20parent%3D%2267%22%3E%3CmxGeometry%20x%3D%220.3443%22%20y%3D%224%22%20relative%3D%221%22%20as%3D%22geometry%22%3E%3CmxPoint%20x%3D%22-14%22%20y%3D%22-1%22%20as%3D%22offset%22%2F%3E%3C%2FmxGeometry%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2269%22%20value%3D%22%26lt%3Bbr%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Blt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bforced-color-adjust%3A%20none%3B%20color%3A%20rgb(0%2C%200%2C%200)%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20font-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230502%2C2100%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Bgt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bdiv%26gt%3B%26lt%3Bbr%2F%26gt%3B%26lt%3B%2Fdiv%26gt%3B%22%20style%3D%22rounded%3D1%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%221010%22%20y%3D%22290%22%20width%3D%22240%22%20height%3D%22140%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2270%22%20value%3D%22%26amp%3Blt%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230501%2C1300%26lt%3B%2Fspan%26gt%3B%26amp%3Bgt%3B%22%20style%3D%22text%3Bhtml%3D1%3Balign%3Dcenter%3BverticalAlign%3Dmiddle%3BwhiteSpace%3Dwrap%3Brounded%3D0%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%221030%22%20y%3D%22290%22%20width%3D%22200%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2271%22%20value%3D%22%26lt%3Bdiv%20style%3D%26quot%3Btext-align%3A%20center%3B%26quot%3B%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bbackground-color%3A%20initial%3B%26quot%3B%26gt%3Breduce%E4%BB%BB%E5%8A%A1%E7%9A%84%E8%BE%93%E5%87%BA%26lt%3B%2Fspan%26gt%3B%26lt%3B%2Fdiv%26gt%3B%22%20style%3D%22text%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%221075%22%20y%3D%22250%22%20width%3D%22100%22%20height%3D%2240%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2272%22%20value%3D%22%26lt%3Bbr%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Blt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bforced-color-adjust%3A%20none%3B%20color%3A%20rgb(0%2C%200%2C%200)%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20font-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230502%2C3400%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Bgt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bdiv%26gt%3B%26lt%3Bbr%2F%26gt%3B%26lt%3B%2Fdiv%26gt%3B%22%20style%3D%22text%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%221060%22%20y%3D%22360%22%20width%3D%22220%22%20height%3D%2210%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2273%22%20value%3D%22%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Blt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bforced-color-adjust%3A%20none%3B%20color%3A%20rgb(0%2C%200%2C%200)%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20font-family%3A%20%26amp%3Bquot%3BTimes%20New%20Roman%26amp%3Bquot%3B%3B%20font-size%3A%2016px%3B%26quot%3B%26gt%3B13396230502%2C1500%26lt%3B%2Fspan%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bcolor%3A%20rgb(0%2C%200%2C%200)%3B%20font-family%3A%20Helvetica%3B%20font-size%3A%2012px%3B%20font-style%3A%20normal%3B%20font-variant-ligatures%3A%20normal%3B%20font-variant-caps%3A%20normal%3B%20font-weight%3A%20400%3B%20letter-spacing%3A%20normal%3B%20orphans%3A%202%3B%20text-align%3A%20center%3B%20text-indent%3A%200px%3B%20text-transform%3A%20none%3B%20widows%3A%202%3B%20word-spacing%3A%200px%3B%20-webkit-text-stroke-width%3A%200px%3B%20white-space%3A%20normal%3B%20background-color%3A%20rgb(251%2C%20251%2C%20251)%3B%20text-decoration-thickness%3A%20initial%3B%20text-decoration-style%3A%20initial%3B%20text-decoration-color%3A%20initial%3B%20display%3A%20inline%20!important%3B%20float%3A%20none%3B%26quot%3B%26gt%3B%26amp%3Bgt%3B%26lt%3B%2Fspan%26gt%3B%22%20style%3D%22text%3BwhiteSpace%3Dwrap%3Bhtml%3D1%3B%22%20vertex%3D%221%22%20parent%3D%221%22%3E%3CmxGeometry%20x%3D%221060%22%20y%3D%22320%22%20width%3D%22220%22%20height%3D%2230%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3C%2Froot%3E%3C%2FmxGraphMode1.11111为计算统计总流量，我们首先将每个split输入到map当中，在此题中示意为每一条数据。将小数据集进一步解析成一批 <key,value>对，输入Map函数中进行处理；输出结果.依据shuffle，同时由于没有用户定义Combine，这里以list输出shuffle结合，最后输入到reduce当中经过sort升序排序输出最终的用户手机统计总流量，示意图详见下一页。



2.题目中没有明确是否需要上行流量和下行流量的计算过程，这里同样给出了实现过程示意图

