```
km::KMeansBase
# int k
# std::vector< Point
   > points
# std::vector< Point
   > centroids
# int number of iterations
+ KMeansBase(const int
  &k. const std::vector
  < Point > &points)
+ KMeansBase(const int &k)
+ virtual ~KMeansBase
  ()=default
+ virtual void run()=0
+ auto getPoints() const
   -> std::vector< Point >
+ auto getCentroids()
   const -> std::vector
  < Point >
+ auto getIterations
  () const -> int
      km::KMeansMPI
   std::vector< std::pair
    < int. Point > > local
   points
```

_points + KMeansMPI(const int &k, const std::vector < Point > &points, std ::vector< std::pair< int, Point > > local_points) + KMeansMPI(const int &k, std::vector< std

::pair< int, Point > >

+ void run() override

local points)