```
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::KMeansOMP
  + KMeansOMP(const int
     &k. const std::vector
    < Point > &points)
  + void run() override
```