**CODE Копанчук Е. Р. ИИ-22**

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| #include<vector>  #include<iostream>  #include<algorithm>  class FloatData : public std::vector<float> {  public:  FloatData(const float\* arr, const int& size)  : std::vector<float>(arr, arr + size) {}  ~FloatData() {}  float Max() {  float max = 0;  for (auto& elem : \*this) {  max = std::max(elem, max);  }  return max;  }  float Sum() {  float sum = 0;  for (auto& elem : \*this) {  sum += elem;  }  return sum;  }  float Mean() {  return Sum() / (\*this).size();  }  };  class IntData {  private:  std::vector<int> data\_;  public:  IntData(const int\* arr, const int& size) {  data\_ = std::vector<int>(arr, arr + size);  }  ~IntData() {}  int Max() {  int max = 0;  for (auto& elem : data\_) {  max = std::max(elem, max);  }  return max;  }  int Sum() {  int sum = 0;  for (auto& elem : data\_) {  sum += elem;  }  return sum;  }  float Mean() {  return float(Sum()) / data\_.size();  }  }; |

**MAIN**

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| int main()  {  int const floatArrSize = 8;  float floatArr[] = {1, 2, 21, 4, 345, 11, 23, 112};  FloatData floatNums(floatArr, floatArrSize);  std::cout <<  floatNums.Max() << ' ' <<  floatNums.Sum() << ' ' <<  floatNums.Mean() << std::endl;  int const intArrSize = 8;  int arrInt[] = { 1, 2, 21, 4, 345, 11, 23, 112 };  IntData intNums(arrInt, intArrSize);  std::cout <<  intNums.Max() << ' ' <<  intNums.Sum() << ' ' <<  intNums.Mean() << std::endl;  } |

**OUTPUT**

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