K=5

ảnh coco 5k ảnh, 5 caption/ảnh

chưa phân tập con M, vẫn tính bleu cho cả tập 25 caption được chọn

**Kết quả**

time to calculate 5000 feature vectors: 3379.1638889312744s

k neighbors

[{'image\_id': 453001, 'id': 600478, 'caption': 'A woman watching another woman walk with a suitcase on wheels. '}, {'image\_id': 453001, 'id': 601384, 'caption': 'a girl watching another girl trip while pulling her suitcase'}, {'image\_id': 453001, 'id': 602101, 'caption': 'A woman carrying a suit case and losing her balance.'}, {'image\_id': 453001, 'id': 603085, 'caption': 'A girl is having a hard time pulling a suit case.'}, {'image\_id': 453001, 'id': 609829, 'caption': 'A young beautiful woman in a short jean skirt.'}, {'image\_id': 274066, 'id': 203530, 'caption': 'A group of people swimming in the ocean with a surfboard.'}, {'image\_id': 274066, 'id': 217675, 'caption': 'A woman and children surfing in the ocean.'}, {'image\_id': 274066, 'id': 225007, 'caption': 'Children are riding surfboards close to the shore.'}, {'image\_id': 274066, 'id': 230260, 'caption': 'People inside the water at the beach with their surf boards'}, {'image\_id': 274066, 'id': 235417, 'caption': 'An instructor is teaching the little girl how to surf.'}, {'image\_id': 390555, 'id': 690585, 'caption': 'The black and white photograph of a classroom of schoolchildren is a bit out of focus on the right side of the picture.'}, {'image\_id': 390555, 'id': 690636, 'caption': 'A group of students are posing for a class picture. '}, {'image\_id': 390555, 'id': 698154, 'caption': 'A bunch of kids standing together for a school picture.'}, {'image\_id': 390555, 'id': 704574, 'caption': 'A group of young children sitting next to each other.'}, {'image\_id': 390555, 'id': 708342, 'caption': 'a bunch of people are gathered for a photograph'}, {'image\_id': 517056, 'id': 494606, 'caption': 'Two women handing out cake on plates on a dining table. '}, {'image\_id': 517056, 'id': 498539, 'caption': 'Two women stand close to a cake that is mostly gone.'}, {'image\_id': 517056, 'id': 504767, 'caption': 'Two woman are slicing and plating pieces of cake.\n'}, {'image\_id': 517056, 'id': 509591, 'caption': 'Two women stand over a table with a cake cut into pieces.'}, {'image\_id': 517056, 'id': 510329, 'caption': 'Two women are cutting and serving a large cake.'}, {'image\_id': 199771, 'id': 322772, 'caption': 'A group of people in chef outfits at a kitchen counter.'}, {'image\_id': 199771, 'id': 322775, 'caption': 'A group of people in chefs uniforms standing around a counter.'}, {'image\_id': 199771, 'id': 324326, 'caption': 'A woman teaches a class of aspiring chefs. '}, {'image\_id': 199771, 'id': 326348, 'caption': 'People in a kitchen with cooking attire on'}, {'image\_id': 199771, 'id': 326549, 'caption': 'A group of people dressed in black preparing food.'}]

time to calculate bleu scores: 0.01677989959716797

{'image\_id': 199771, 'id': 322772, 'caption': 'A group of people in chef outfits at a kitchen counter.', 'bleu\_score': 0.4296943523820148}