

OUTPUT

similarity_scores0 = task3(0,10)

Query Image 1

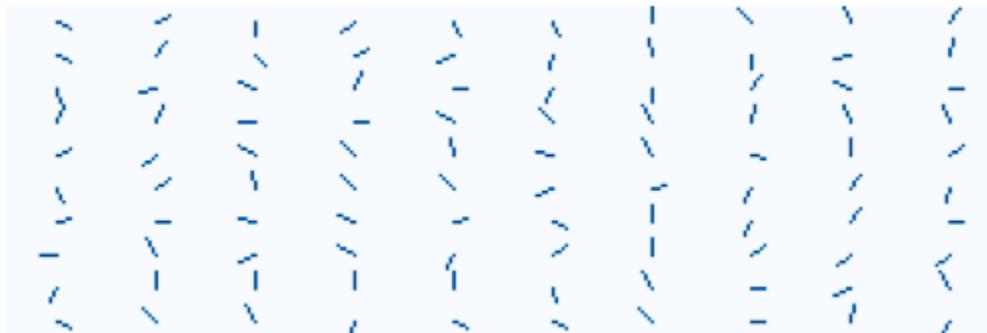


Output 1 for Query Image 1

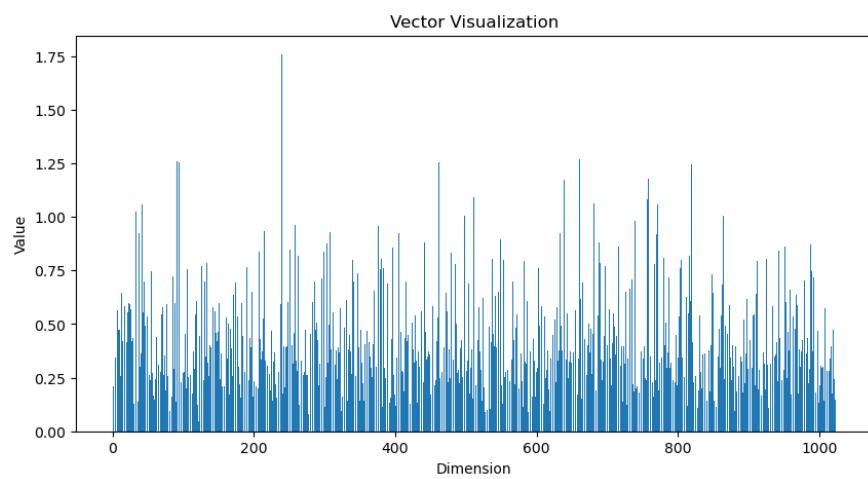
Query Image Color Moments



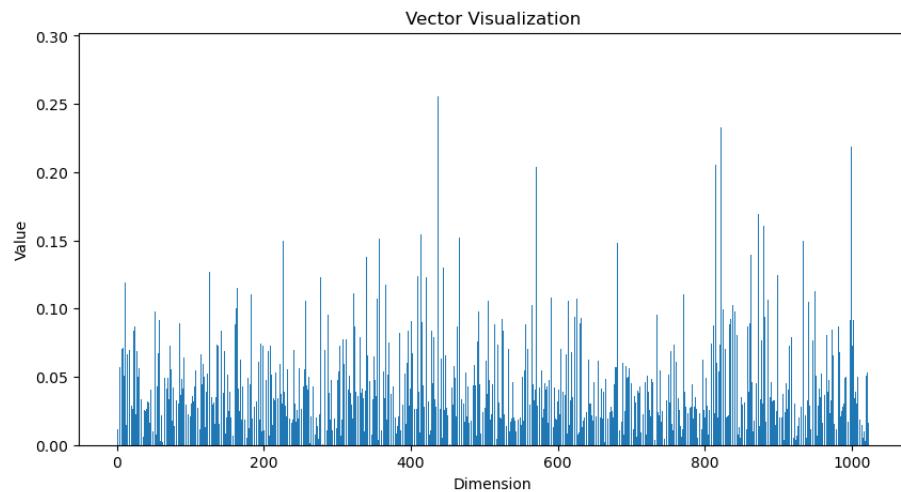
Query Image HOG Descriptor



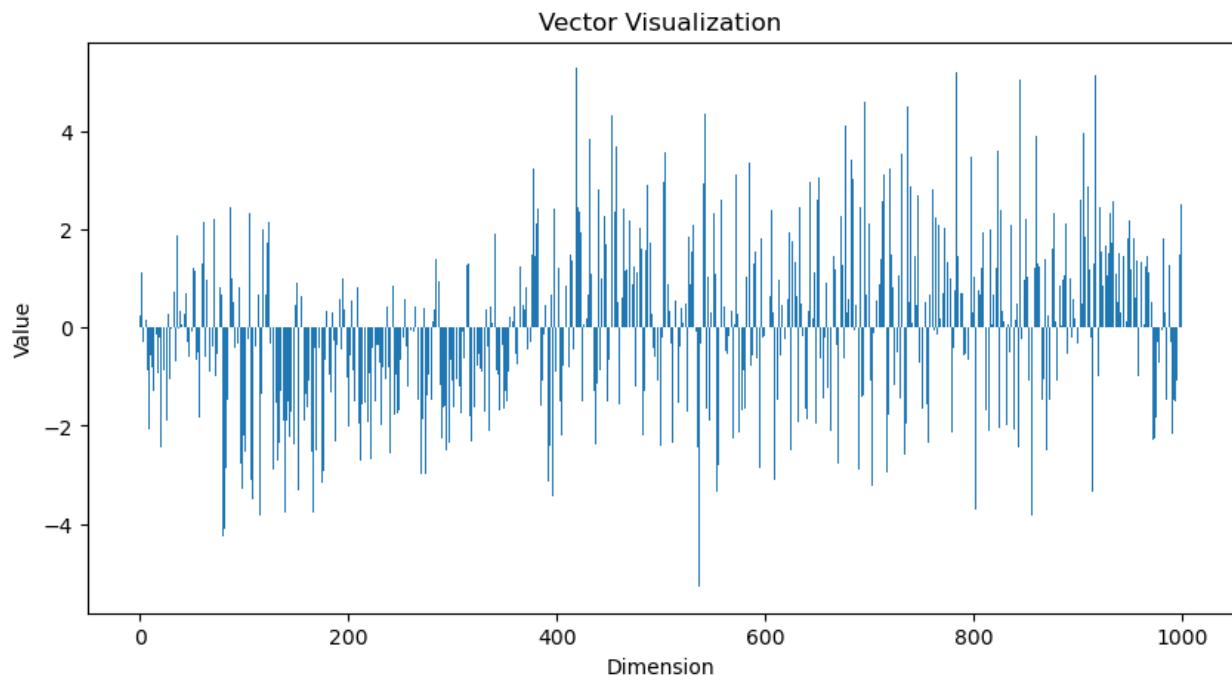
Query Image Avgpool Descriptor



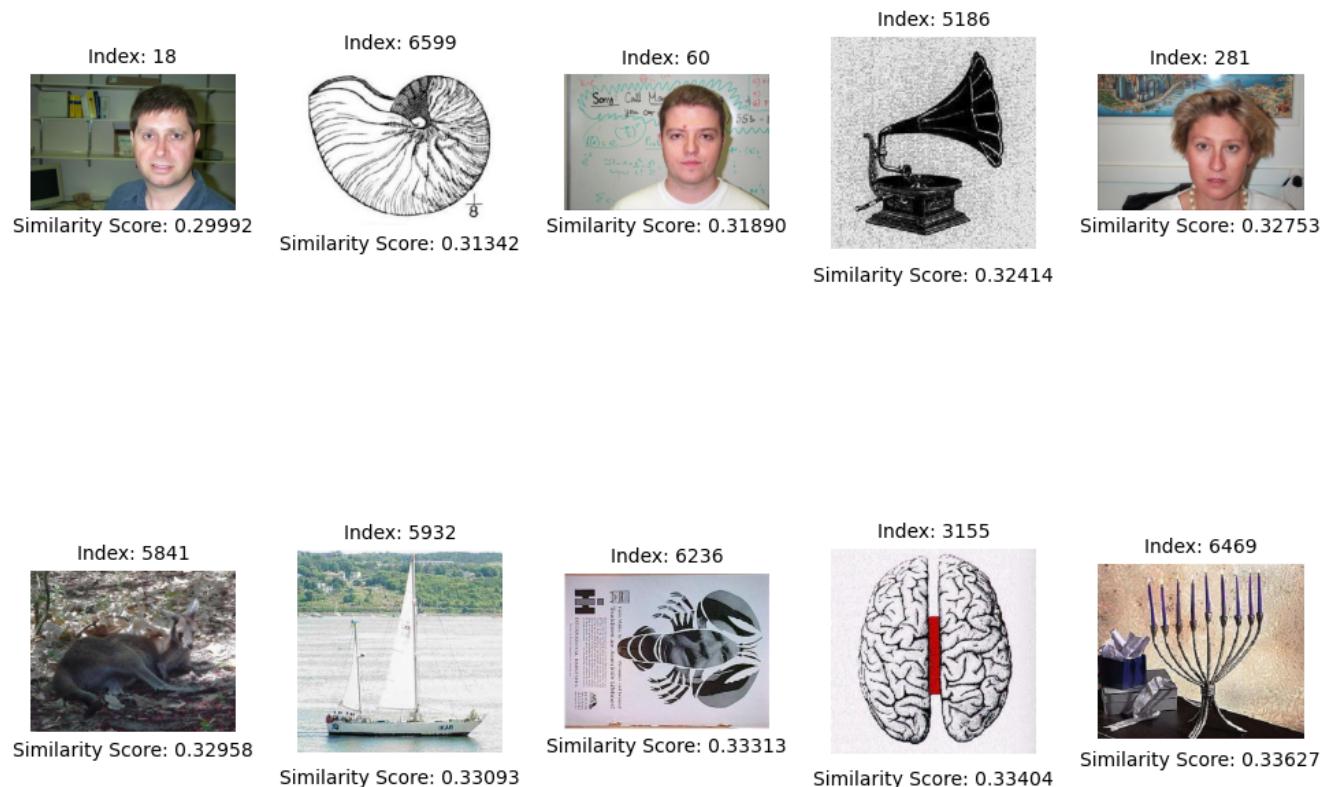
Query Image Layer3 Descriptor



Query Image FC Descriptor



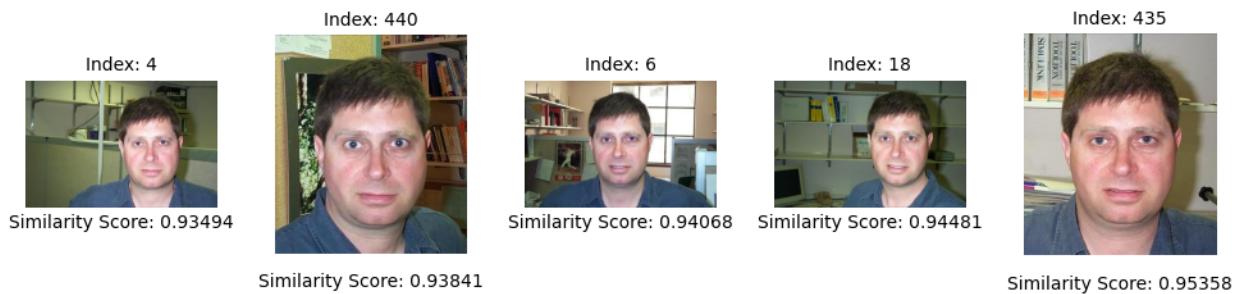
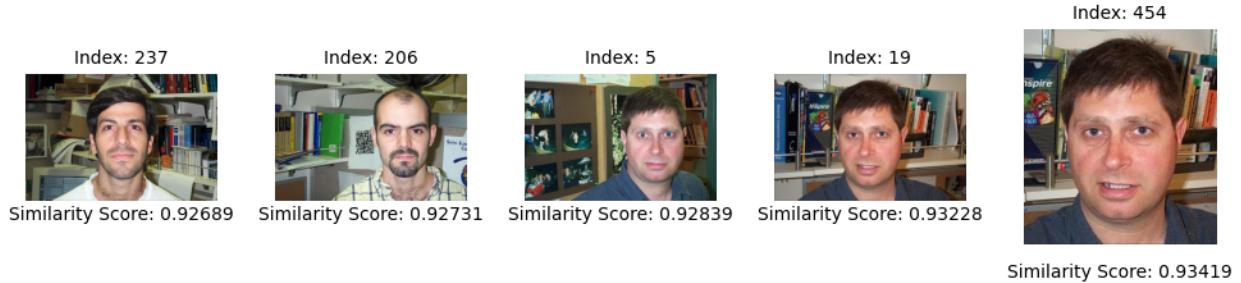
Color Moments - Euclidean Distance



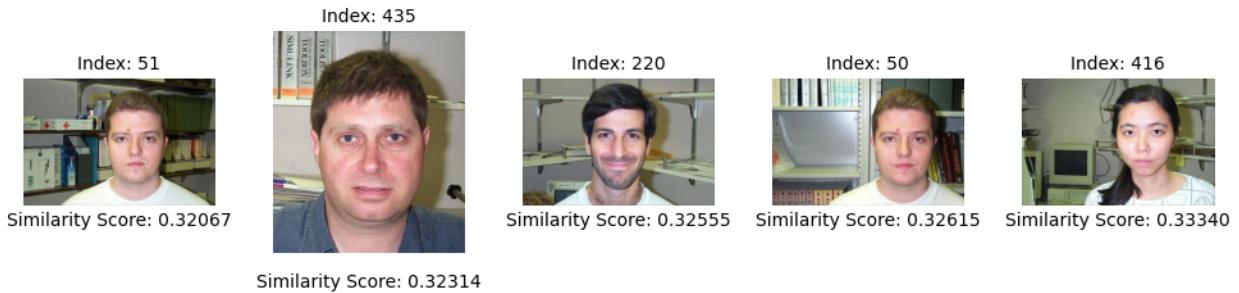
Histograms of Oriented Gradients(HOG) - Cosine Similarity



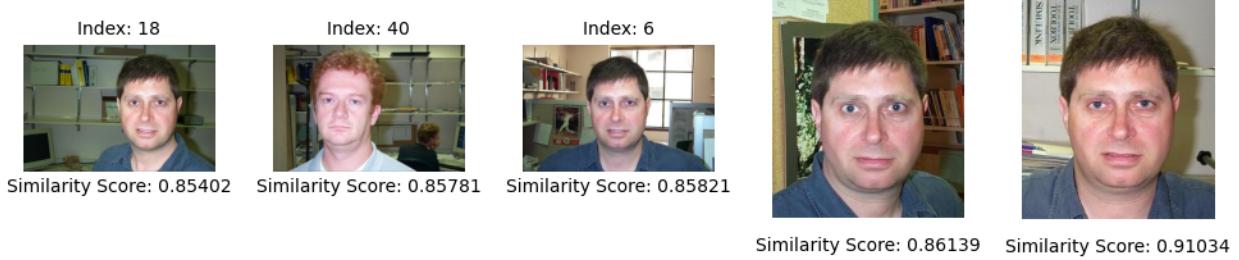
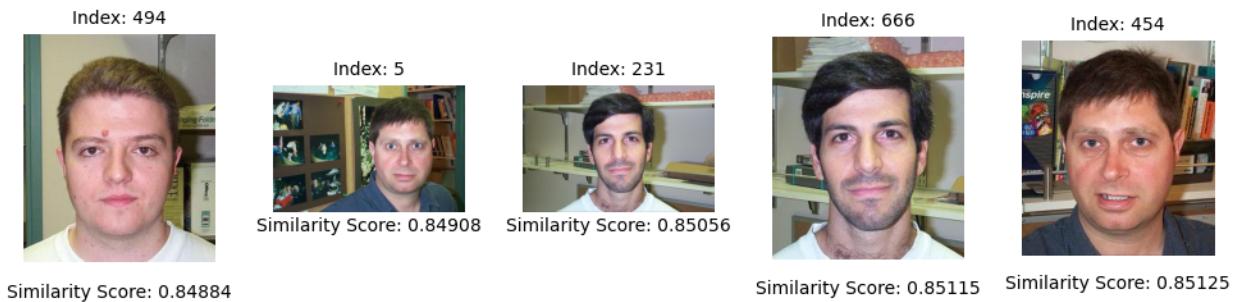
ResNet-AvgPool-1024 - Cosine Similarity



ResNet-Layer3-1024 - Euclidean Distance



ResNet-FC-1000 - Cosine Similarity



similarity_scores880 = task3(880,10)

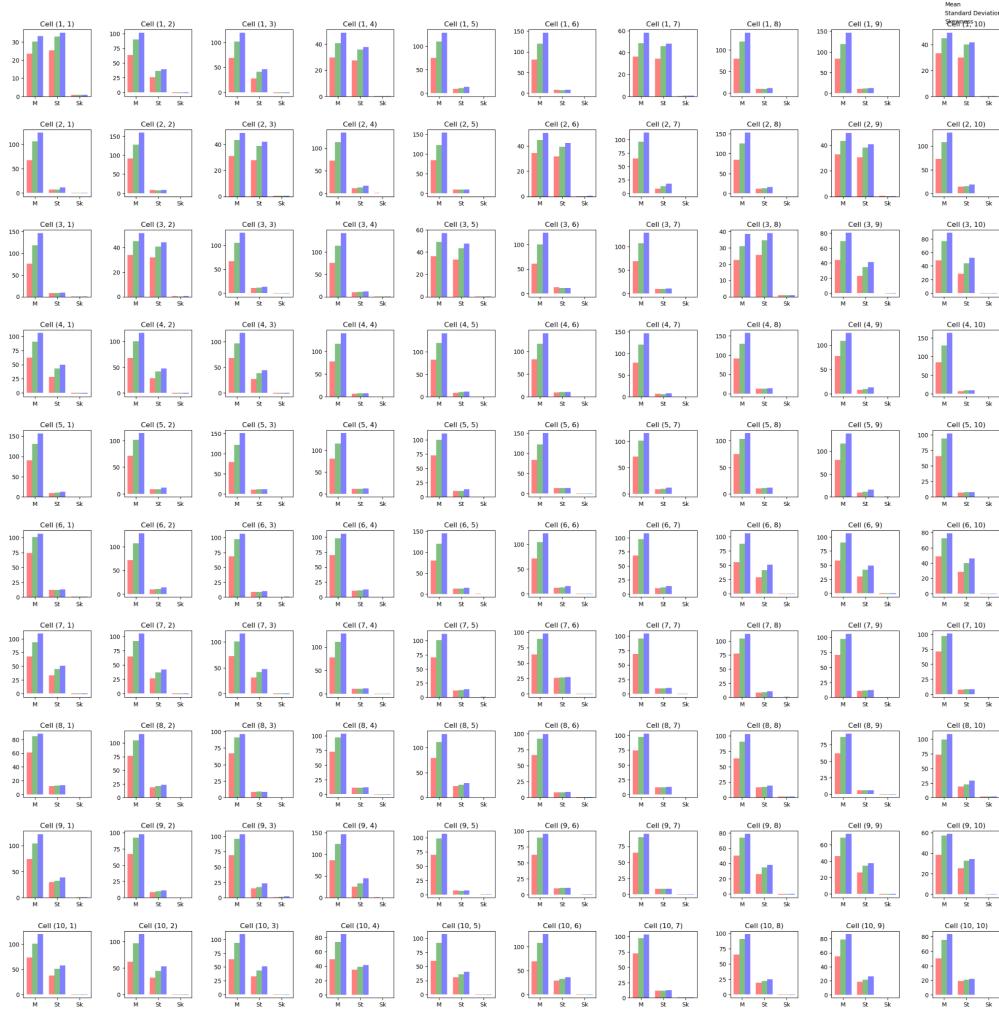
In [68]:

Query Image 2

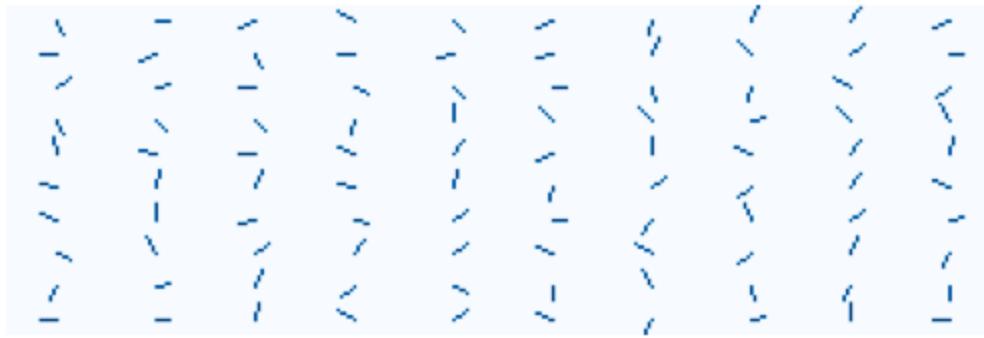


Output 2 for Query Image 2

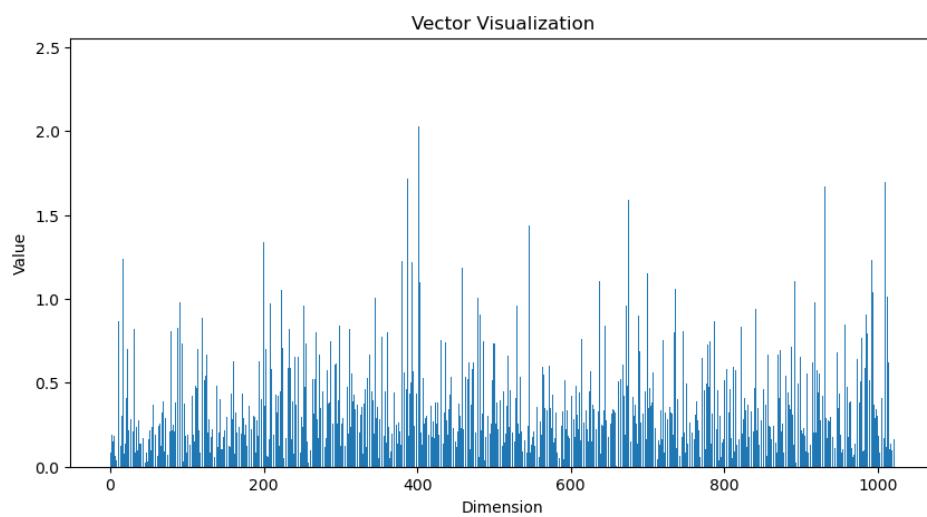
Query Image Color Moments



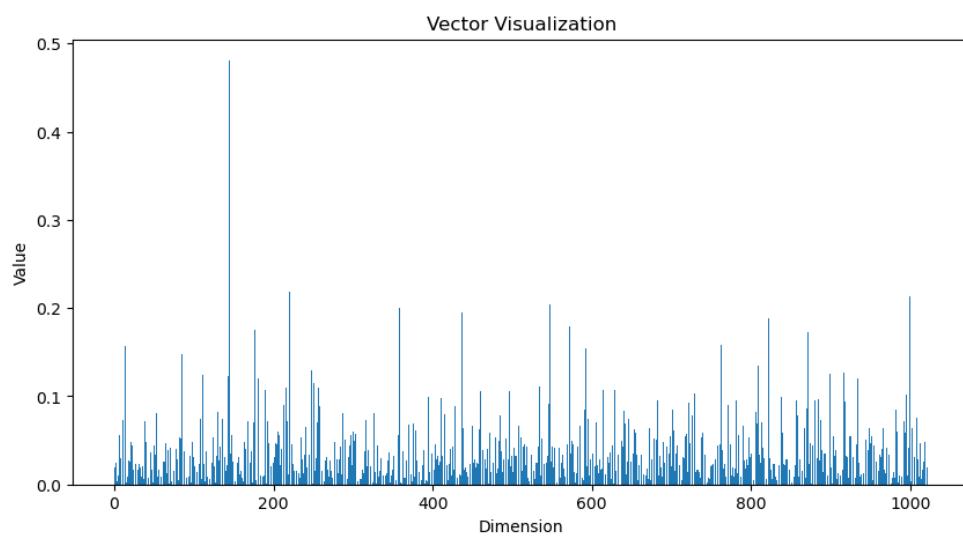
Query Image HOG Descriptor



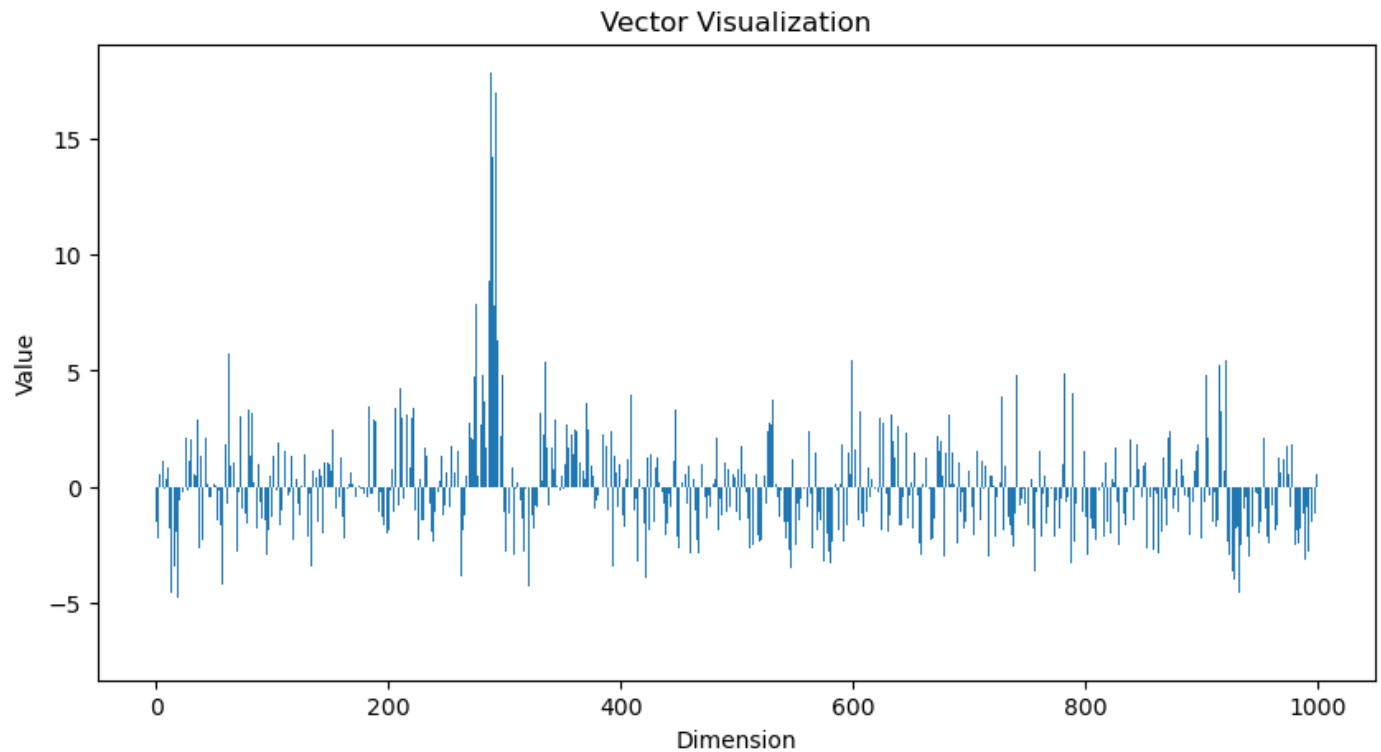
Query Image Avgpool Descriptor



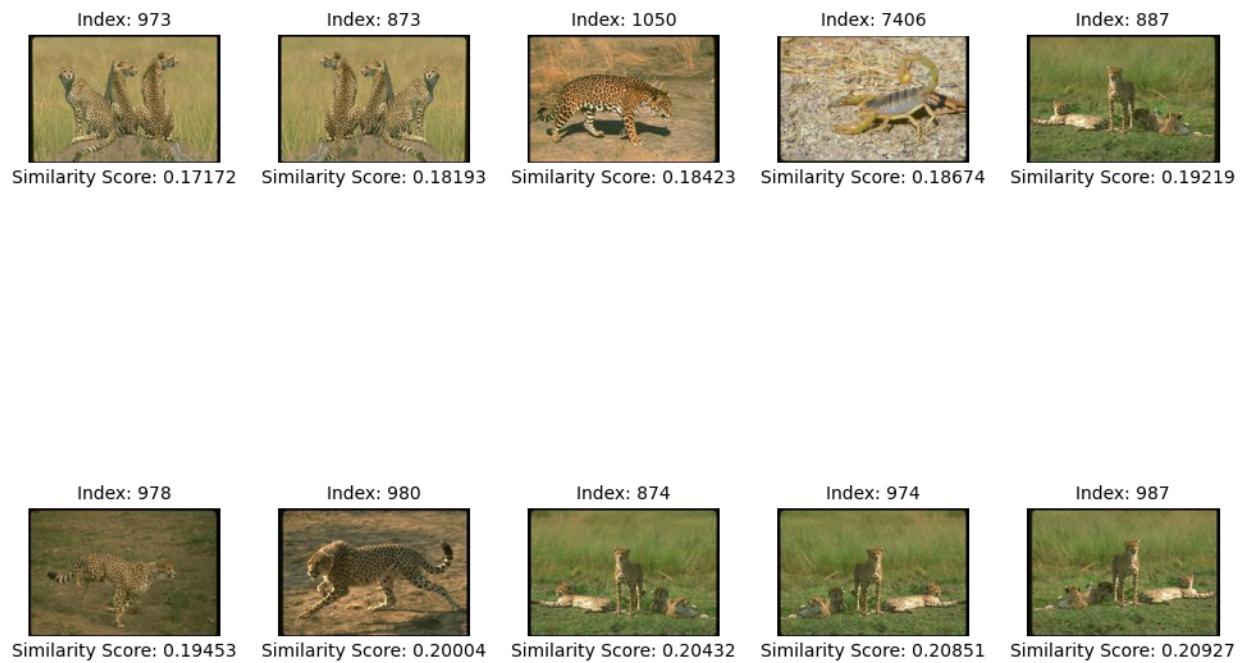
Query Image Layer3 Descriptor



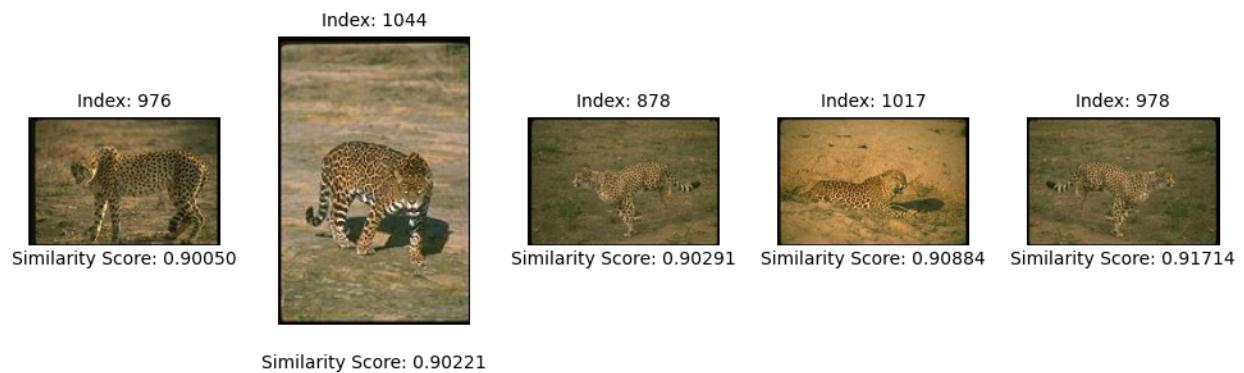
Query Image FC Descriptor



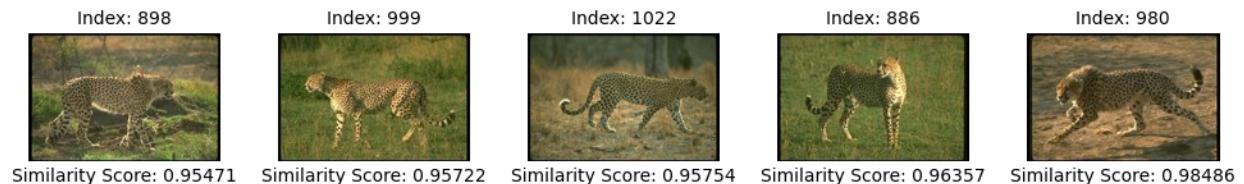
Color Moments - Euclidean Distance



Histograms of Oriented Gradients(HOG) - Cosine Similarity



ResNet-AvgPool-1024 - Cosine Similarity



ResNet-Layer3-1024 - Euclidean Distance



ResNet-FC-1000 - Cosine Similarity



In [69]:

similarity_scores2500 = task3(2500,10)

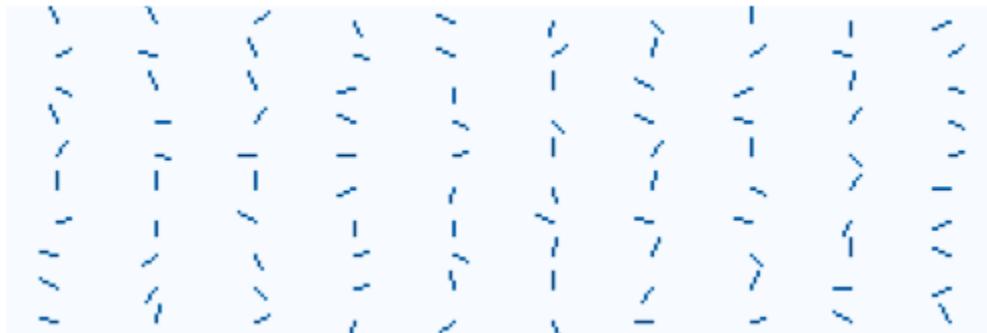
Query Image 3



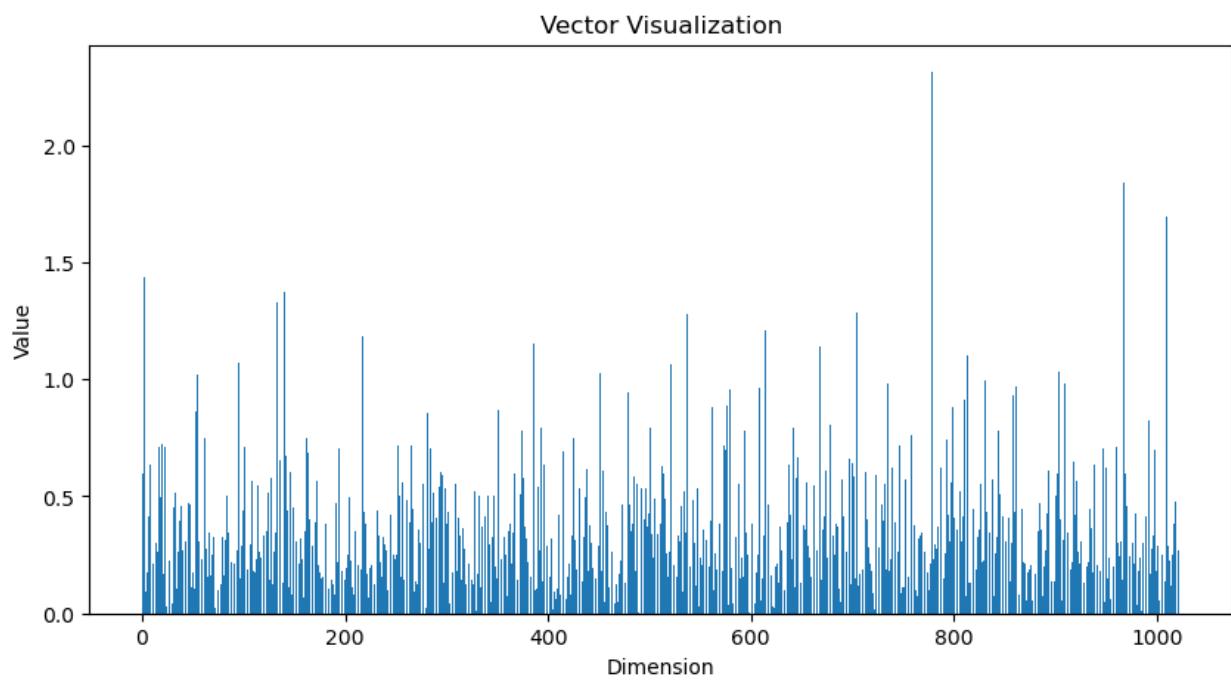
Query Image Color Moments



Query Image HOG Descriptor

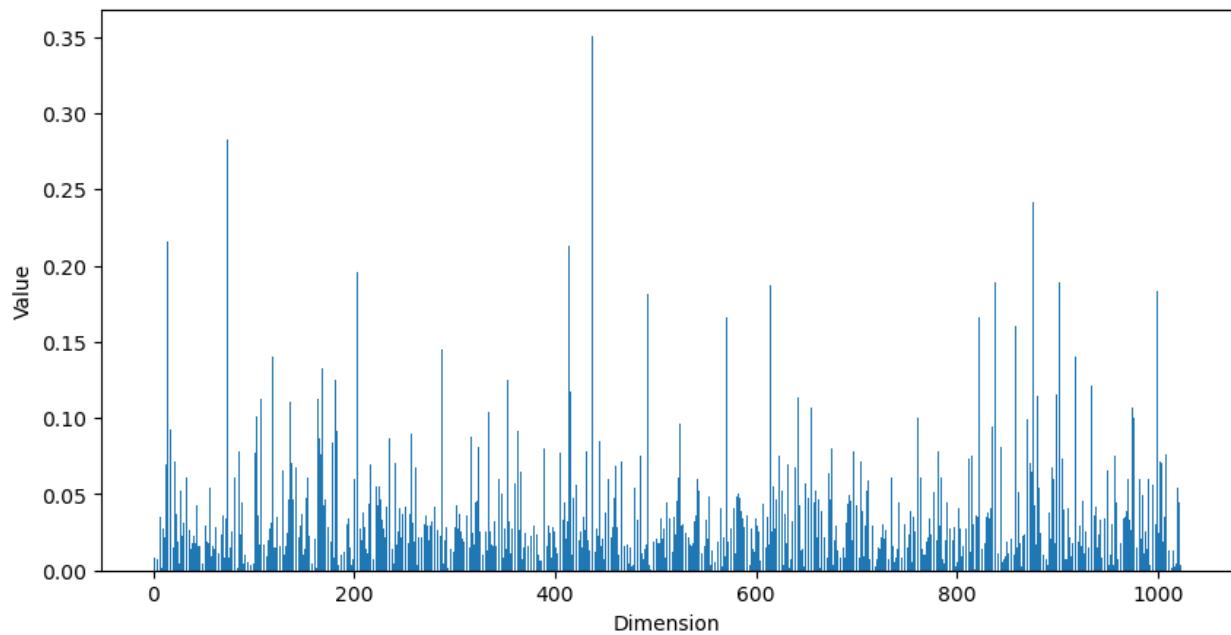


Query Image Avgpool Descriptor



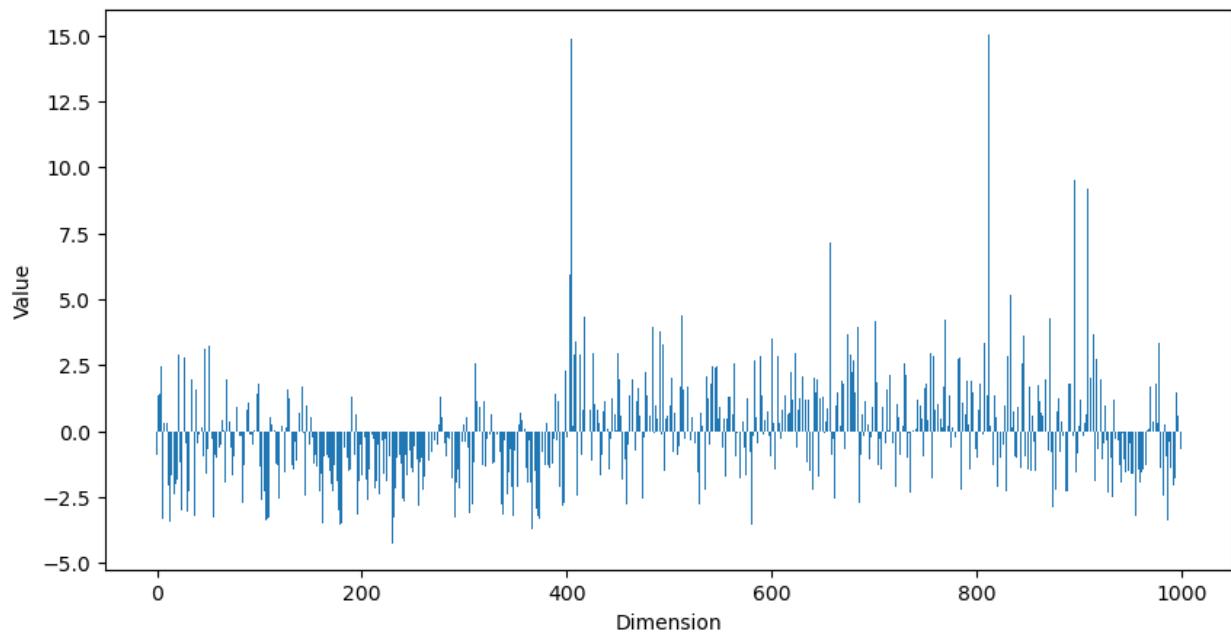
Query Image Layer3 Descriptor

Vector Visualization



Query Image FC Descriptor

Vector Visualization



Color Moments - Euclidean Distance



Histograms of Oriented Gradients(HOG) - Cosine Similarity



ResNet-AvgPool-1024 - Cosine Similarity



ResNet-Layer3-1024 - Euclidean Distance



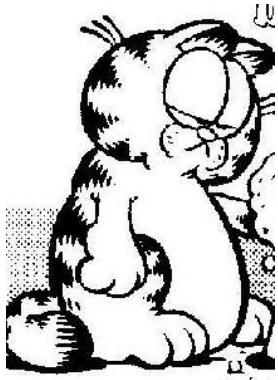
ResNet-FC-1000 - Cosine Similarity



In [70]:

similarity_scores5122 = task3(5122,10)

Query Image 4

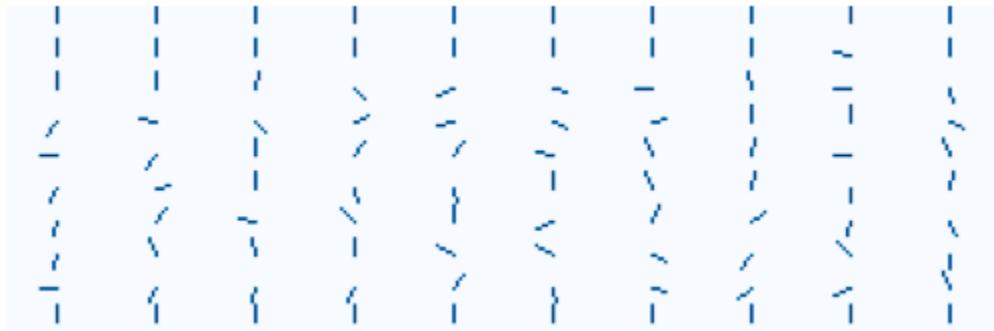


Output 4 for Query Image 4

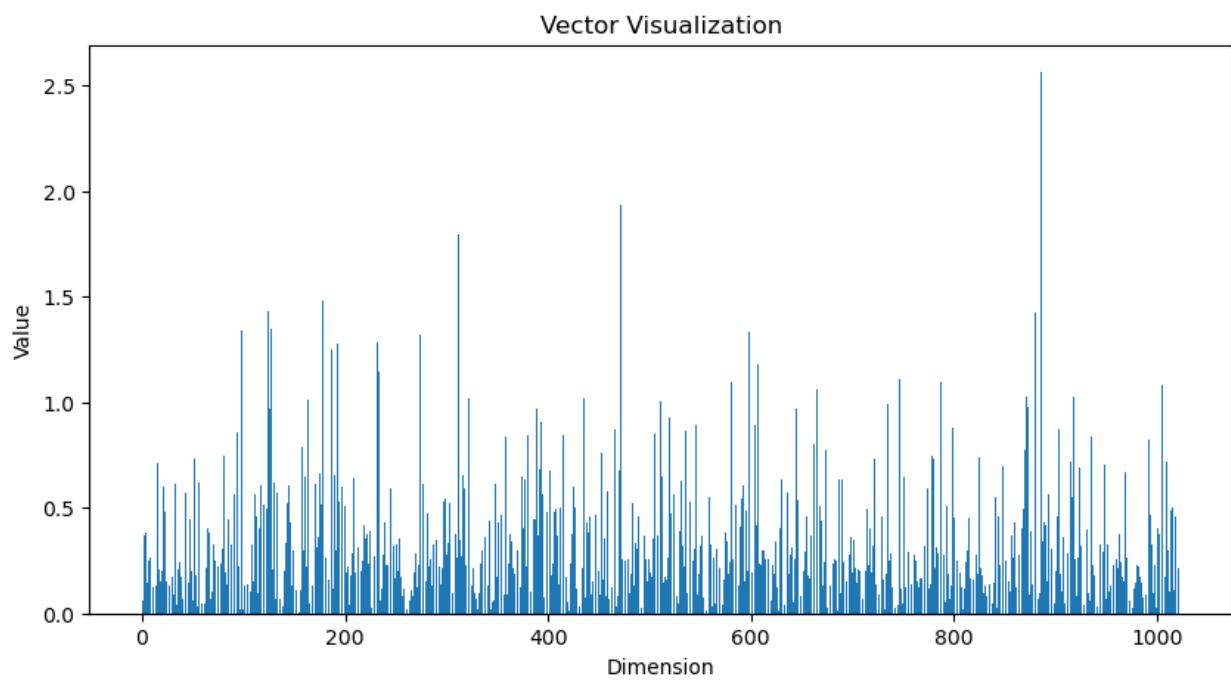
Query Image Color Moments



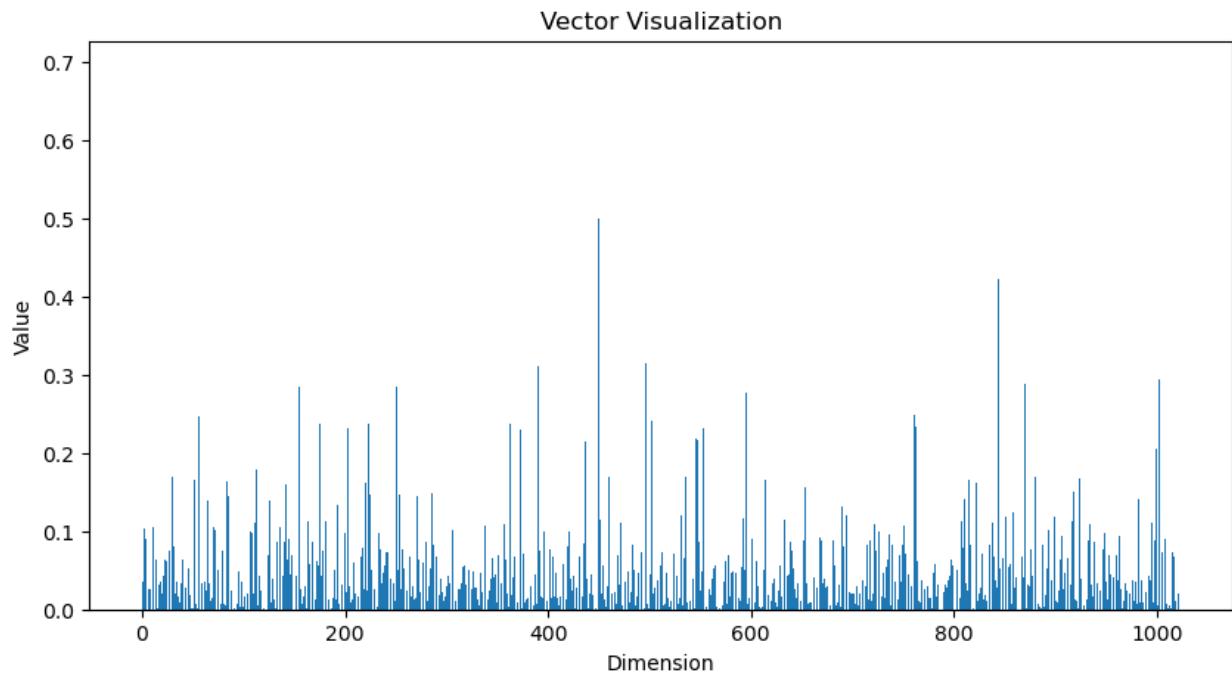
Query Image HOG Descriptor



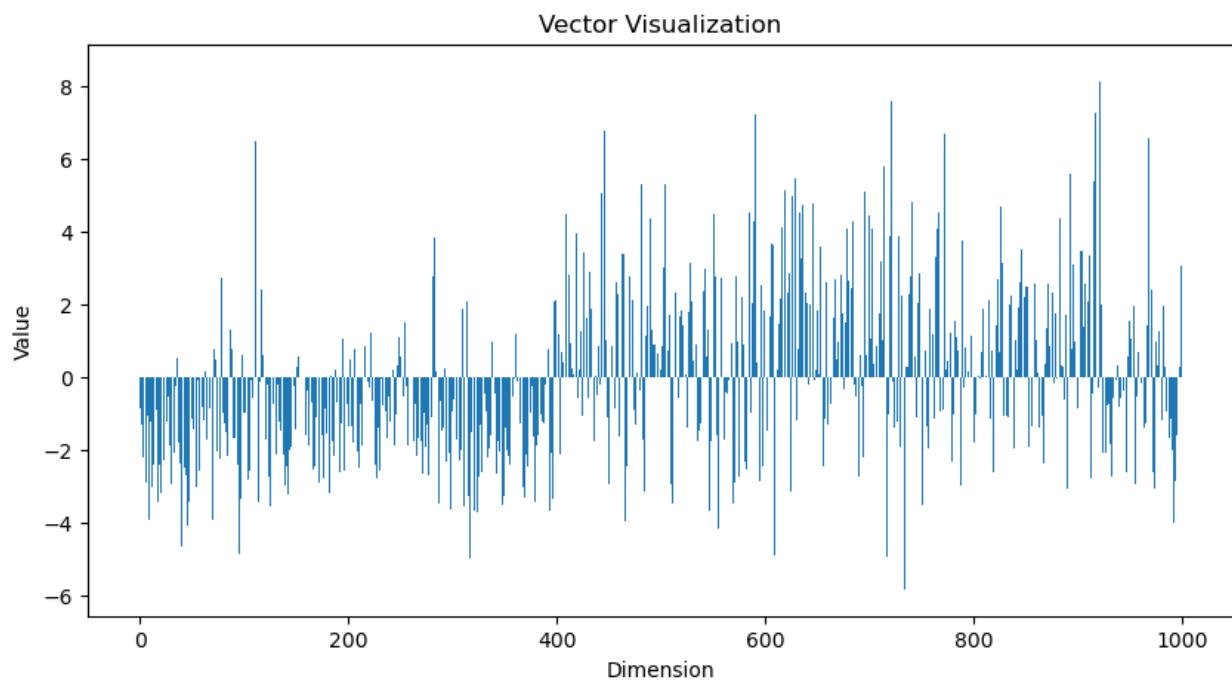
Query Image Avgpool Descriptor



Query Image Layer3 Descriptor



Query Image FC Descriptor



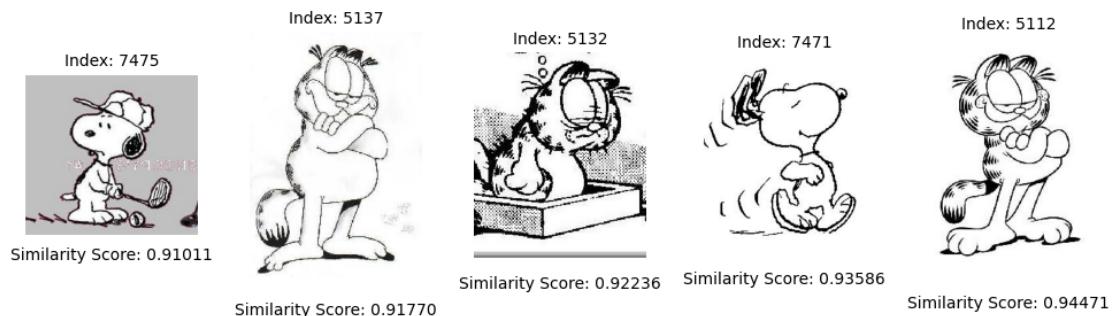
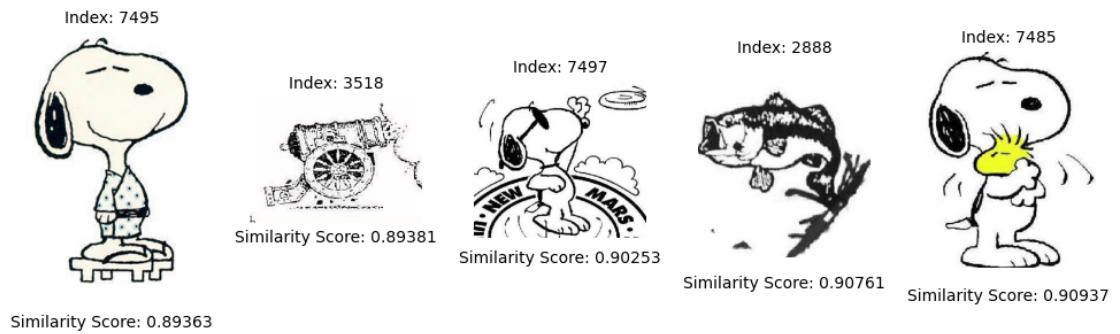
Color Moments - Euclidean Distance



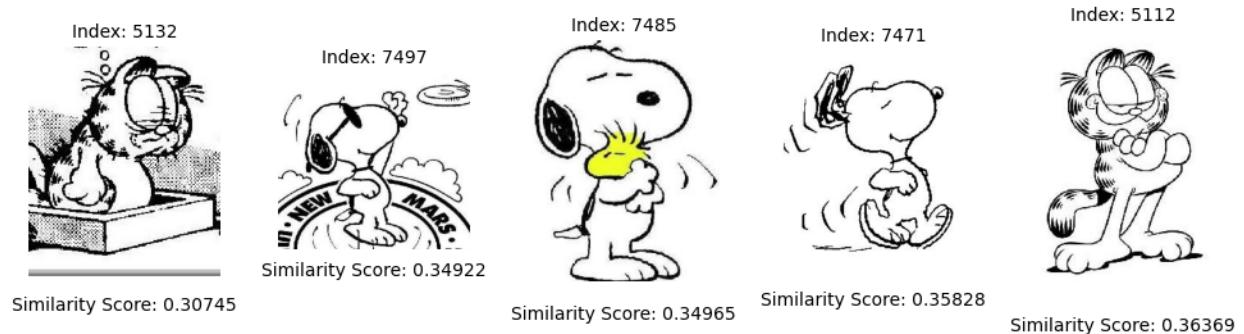
Histograms of Oriented Gradients(HOG) - Cosine Similarity



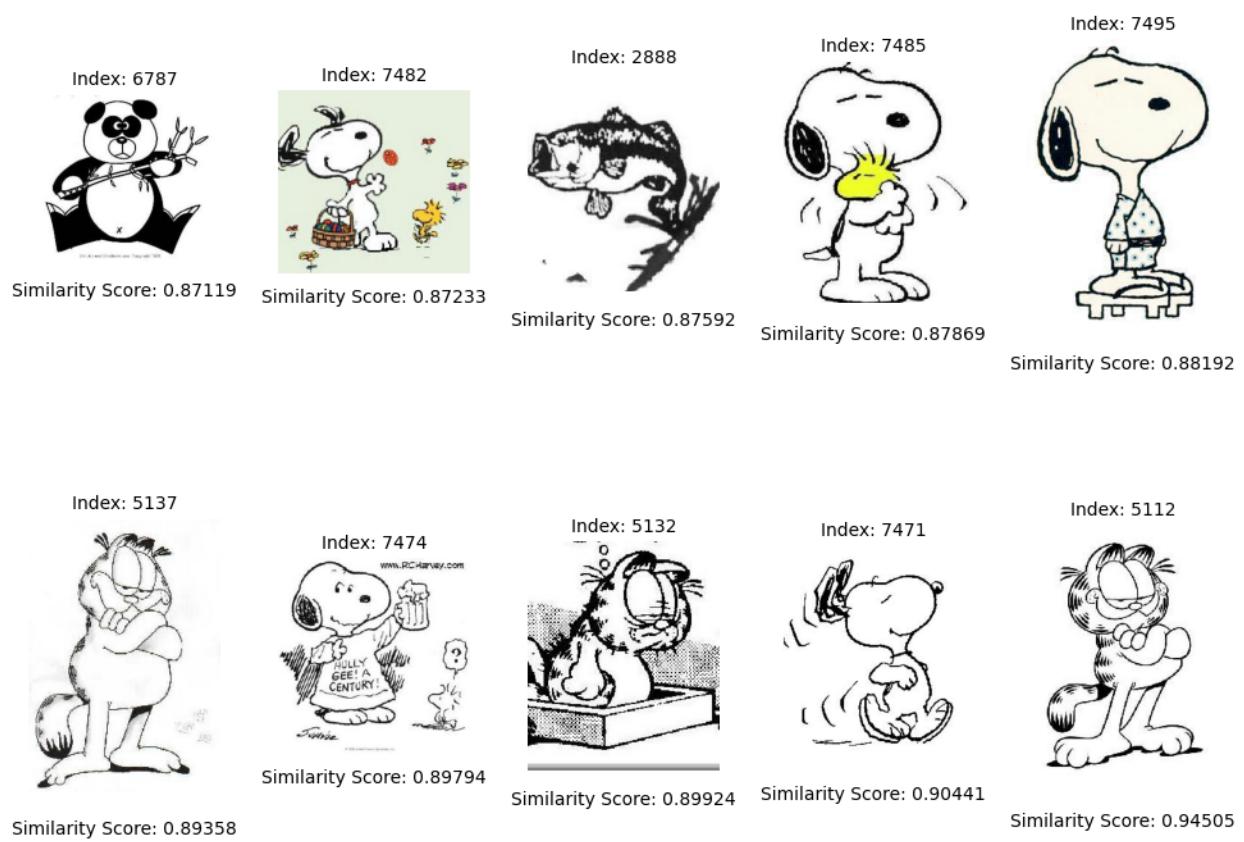
ResNet-AvgPool-1024 - Cosine Similarity



ResNet-Layer3-1024 - Euclidean Distance



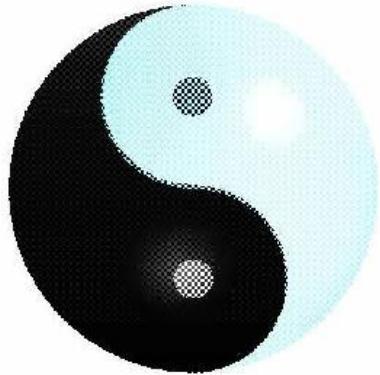
ResNet-FC-1000 - Cosine Similarity



In [71]:

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similarity_scores8676 = task3(8676,10)
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Query Image 5



Output 5 for Query Image 5

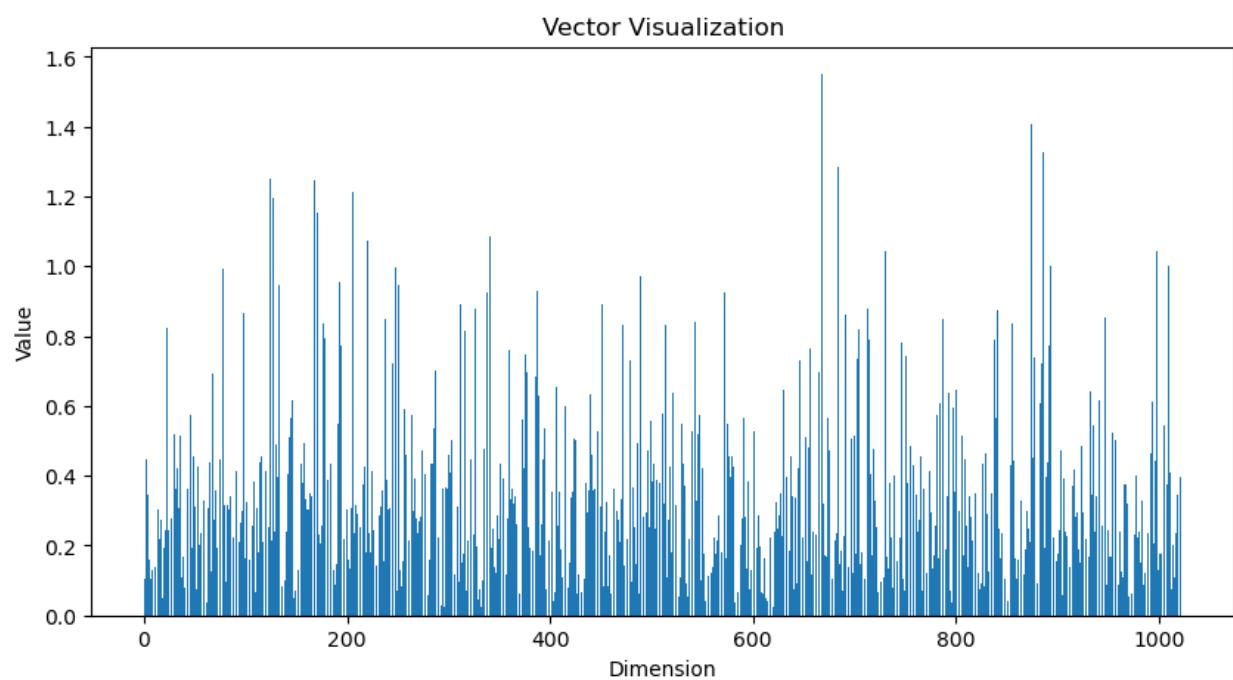
Query Image Color Moments



Query Image HOG Descriptor

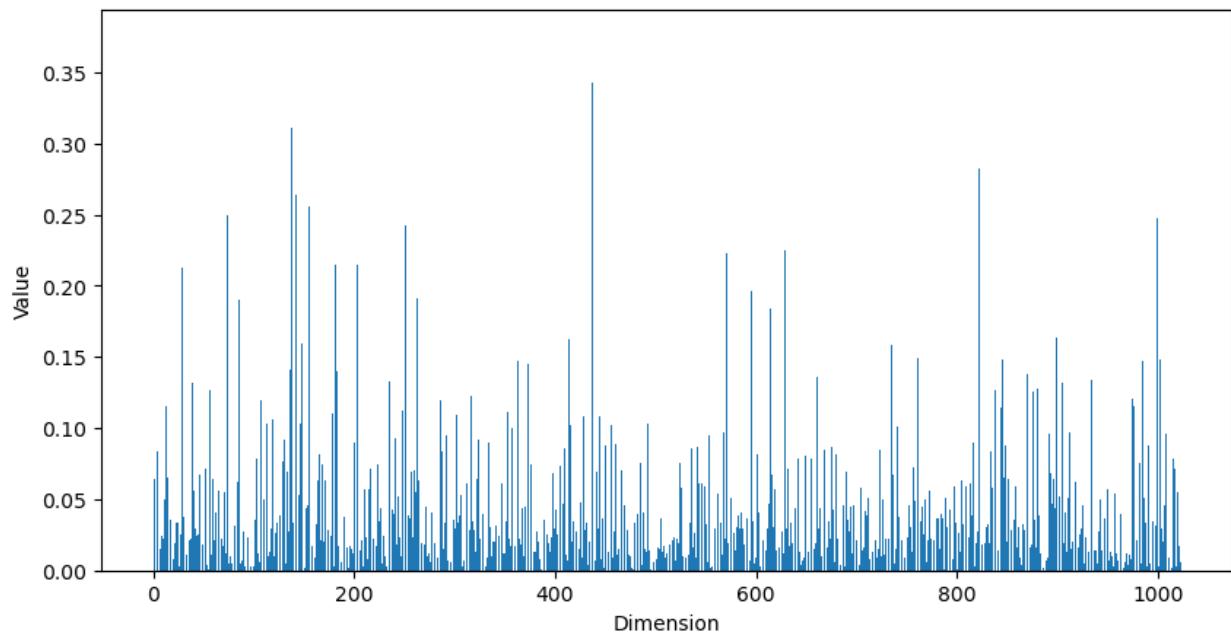


Query Image Avgpool Descriptor



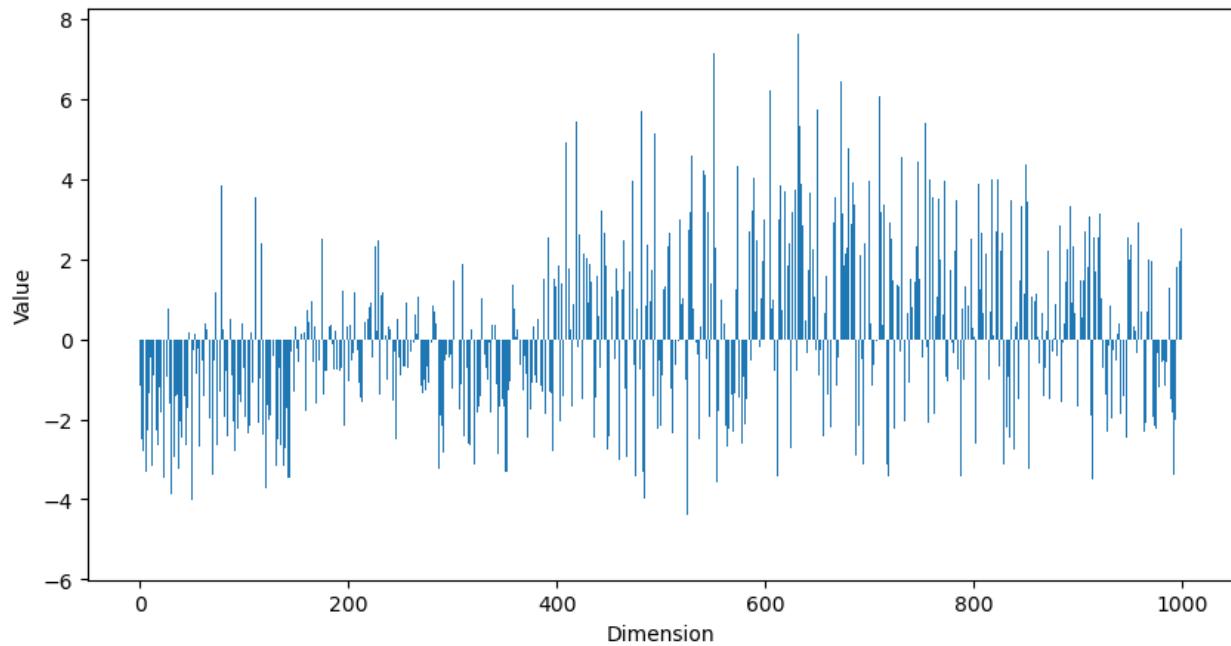
Query Image Layer3 Descriptor

Vector Visualization



Query Image FC Descriptor

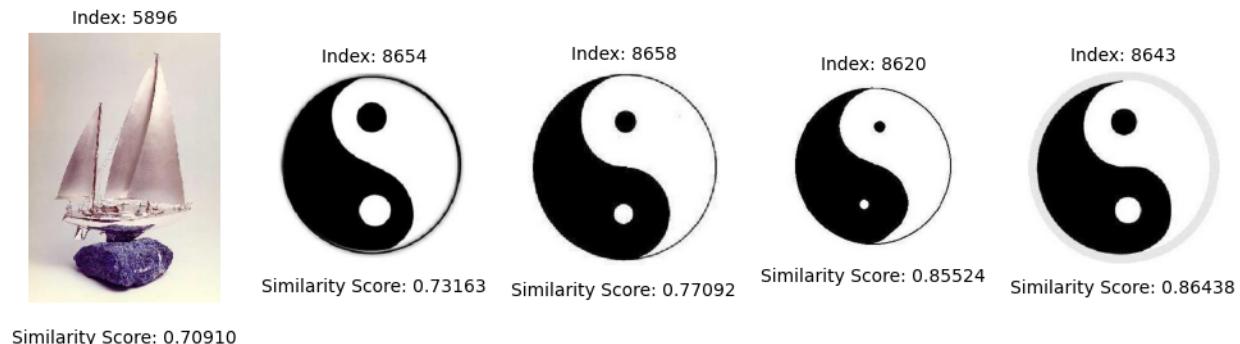
Vector Visualization



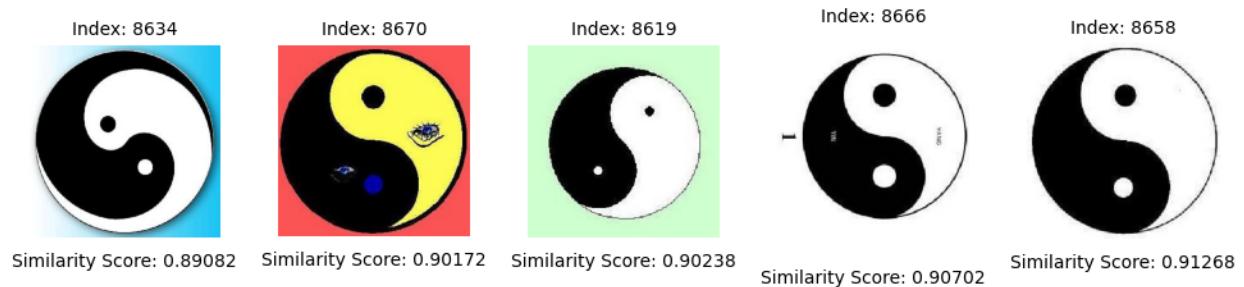
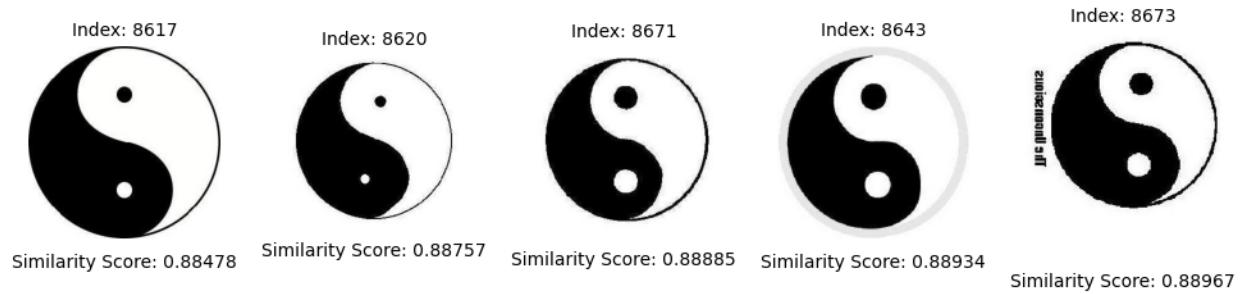
Color Moments - Euclidean Distance



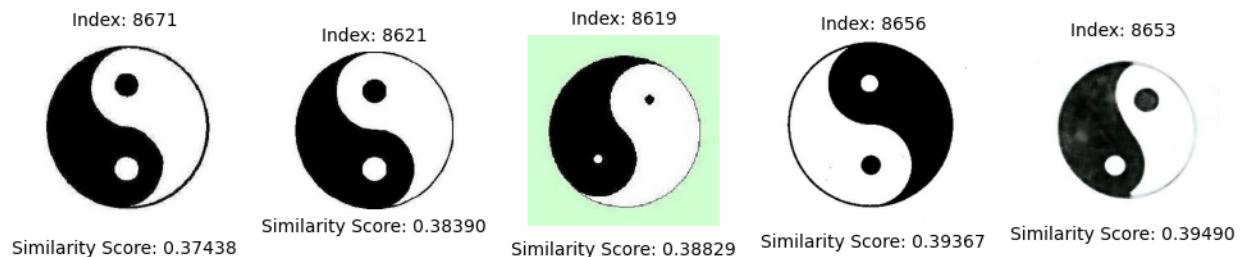
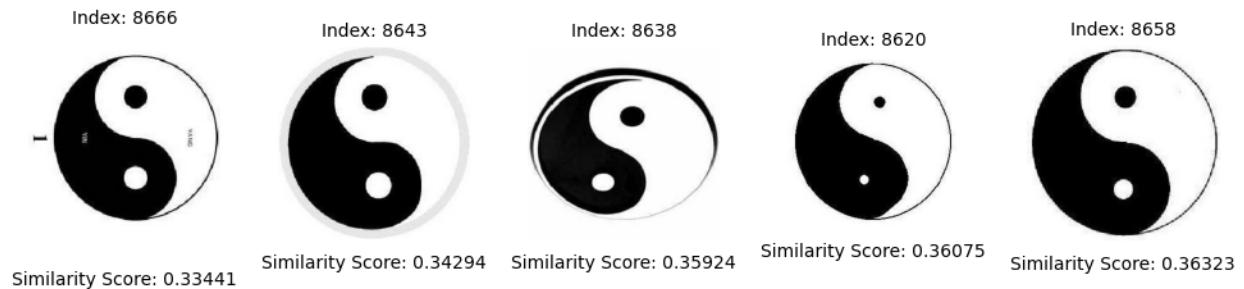
Histograms of Oriented Gradients(HOG) - Cosine Similarity



ResNet-AvgPool-1024 - Cosine Similarity



ResNet-Layer3-1024 - Euclidean Distance



ResNet-FC-1000 - Cosine Similarity

