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1 def RunDownload(segments_filename , json_file_path):
2 # Main downloading function
3     Segments <- PrepSegments(json_file_path):
4         # parses JSON file
5         Segments <- Segment(Start , End, Score , Id)
6         return Segments
7
8     FilenameMap <- GenListOfUrls(Segments):
9         for Segment in Segments:
10             split long Segment into fractions
11             for [point_start , point_end] in fractions:
12                 urls , filenames <- betweenPoints(point_start , point_end)
13                 # generates three images from standing at point_start
14                 # and three images from standing at point_end
15                 return urls , filenames
16             # build list of urls and filenames to download
17
18 DownloadUrlFilenameMap(FilenameMap , Segments):
19     for [url , filename , segment_id , nth_image] in FilenameMap:
20         loaded , error <- url_retrieve_with_retry(url , filename)
21         Segments[segment_id].HasLoadedImages[nth_image] = loaded
22         Segments[segment_id].ErrorMessage[nth_image] = error
23
24 SaveDataFile(Segments , segments_filename) # save pickled array

```