

Our Solution(s)	Run Code	Your Solutions	Run Code
<div>Solution 1</div> <pre>1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved. 2 3 #include &lt;vector&gt; 4 #include &lt;algorithm&gt; 5 using namespace std; 6 7 // O(n^2) time   O(n) space 8 vector&lt;vector&lt;int&gt;&gt; threeNumberSum(vector&lt;int&gt; array, int target) { 9     sort(array.begin(), array.end()); 10    vector&lt;vector&lt;int&gt;&gt; triplets; 11    for (int i = 0; i &lt; array.size() - 2; i++) { 12        int left = i + 1; 13        int right = array.size() - 1; 14        while (left &lt; right) { 15            int currentSum = array[i] + array[left] + array[right]; 16            if (currentSum == targetSum) { 17                triplets.push_back({array[i], array[left], array[right]}); 18                left++; 19                right--; 20            } else if (currentSum &lt; targetSum) { 21                left++; 22            } else if (currentSum &gt; targetSum) { 23                right--; 24            } 25        } 26    } 27    return triplets; 28 } 29</pre>		<div>Solution 1   Solution 2   Solution 3</div> <pre>1 #include &lt;vector&gt; 2 using namespace std; 3 4 vector&lt;vector&lt;int&gt;&gt; threeNumberSum(vector&lt;int&gt; array, int target) { 5     // Write your code here. 6     return {}; 7 } 8</pre>	
<div>Our Tests</div>		<div>Custom Output   Submit Code</div>	

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```

1  #!/usr/bin/env python
2
3  # Test case 1
4  def test_case_1():
5      # Input
6      n = 10
7      k = 3
8      # Expected output
9      expected = 10
10     # Actual output
11     actual = 10
12     # Check if the output is correct
13     if actual == expected:
14         print("Test case 1 passed")
15     else:
16         print("Test case 1 failed")
17
18  # Test case 2
19  def test_case_2():
20      # Input
21      n = 10
22      k = 3
23      # Expected output
24      expected = 10
25      # Actual output
26      actual = 10
27      # Check if the output is correct
28      if actual == expected:
29          print("Test case 2 passed")
30      else:
31          print("Test case 2 failed")
32
33  # Test case 3
34  def test_case_3():
35      # Input
36      n = 10
37      k = 3
38      # Expected output
39      expected = 10
40      # Actual output
41      actual = 10
42      # Check if the output is correct
43      if actual == expected:
44          print("Test case 3 passed")
45      else:
46          print("Test case 3 failed")
47
48  # Test case 4
49  def test_case_4():
50      # Input
51      n = 10
52      k = 3
53      # Expected output
54      expected = 10
55      # Actual output
56      actual = 10
57      # Check if the output is correct
58      if actual == expected:
59          print("Test case 4 passed")
60      else:
61          print("Test case 4 failed")
62
63  # Test case 5
64  def test_case_5():
65      # Input
66      n = 10
67      k = 3
68      # Expected output
69      expected = 10
70      # Actual output
71      actual = 10
72      # Check if the output is correct
73      if actual == expected:
74          print("Test case 5 passed")
75      else:
76          print("Test case 5 failed")
77
78  # Test case 6
79  def test_case_6():
80      # Input
81      n = 10
82      k = 3
83      # Expected output
84      expected = 10
85      # Actual output
86      actual = 10
87      # Check if the output is correct
88      if actual == expected:
89          print("Test case 6 passed")
90      else:
91          print("Test case 6 failed")
92
93  # Test case 7
94  def test_case_7():
95      # Input
96      n = 10
97      k = 3
98      # Expected output
99      expected = 10
100     # Actual output
101     actual = 10
102     # Check if the output is correct
103     if actual == expected:
104         print("Test case 7 passed")
105     else:
106         print("Test case 7 failed")
107
108  # Test case 8
109  def test_case_8():
110     # Input
111     n = 10
112     k = 3
113     # Expected output
114     expected = 10
115     # Actual output
116     actual = 10
117     # Check if the output is correct
118     if actual == expected:
119         print("Test case 8 passed")
120     else:
121         print("Test case 8 failed")
122
123  # Test case 9
124  def test_case_9():
125     # Input
126     n = 10
127     k = 3
128     # Expected output
129     expected = 10
130     # Actual output
131     actual = 10
132     # Check if the output is correct
133     if actual == expected:
134         print("Test case 9 passed")
135     else:
136         print("Test case 9 failed")
137
138  # Test case 10
139  def test_case_10():
140     # Input
141     n = 10
142     k = 3
143     # Expected output
144     expected = 10
145     # Actual output
146     actual = 10
147     # Check if the output is correct
148     if actual == expected:
149         print("Test case 10 passed")
150     else:
151         print("Test case 10 failed")
152
153  # Test case 11
154  def test_case_11():
155     # Input
156     n = 10
157     k = 3
158     # Expected output
159     expected = 10
160     # Actual output
161     actual = 10
162     # Check if the output is correct
163     if actual == expected:
164         print("Test case 11 passed")
165     else:
166         print("Test case 11 failed")
167
168  # Test case 12
169  def test_case_12():
170     # Input
171     n = 10
172     k = 3
173     # Expected output
174     expected = 10
175     # Actual output
176     actual = 10
177     # Check if the output is correct
178     if actual == expected:
179         print("Test case 12 passed")
180     else:
181         print("Test case 12 failed")
182
183  # Test case 13
184  def test_case_13():
185     # Input
186     n = 10
187     k = 3
188     # Expected output
189     expected = 10
190     # Actual output
191     actual = 10
192     # Check if the output is correct
193     if actual == expected:
194         print("Test case 13 passed")
195     else:
196         print("Test case 13 failed")
197
198  # Test case 14
199  def test_case_14():
200     # Input
201     n = 10
202     k = 3
203     # Expected output
204     expected = 10
205     # Actual output
206     actual = 10
207     # Check if the output is correct
208     if actual == expected:
209         print("Test case 14 passed")
210     else:
211         print("Test case 14 failed")
212
213  # Test case 15
214  def test_case_15():
215     # Input
216     n = 10
217     k = 3
218     # Expected output
219     expected = 10
220     # Actual output
221     actual = 10
222     # Check if the output is correct
223     if actual == expected:
224         print("Test case 15 passed")
225     else:
226         print("Test case 15 failed")
227
228  # Test case 16
229  def test_case_16():
230     # Input
231     n = 10
232     k = 3
233     # Expected output
234     expected = 10
235     # Actual output
236     actual = 10
237     # Check if the output is correct
238     if actual == expected:
239         print("Test case 16 passed")
240     else:
241         print("Test case 16 failed")
242
243  # Test case 17
244  def test_case_17():
245     # Input
246     n = 10
247     k = 3
248     # Expected output
249     expected = 10
250     # Actual output
251     actual = 10
252     # Check if the output is correct
253     if actual == expected:
254         print("Test case 17 passed")
255     else:
256         print("Test case 17 failed")
257
258  # Test case 18
259  def test_case_18():
260     # Input
261     n = 10
262     k = 3
263     # Expected output
264     expected = 10
265     # Actual output
266     actual = 10
267     # Check if the output is correct
268     if actual == expected:
269         print("Test case 18 passed")
270     else:
271         print("Test case 18 failed")
272
273  # Test case 19
274  def test_case_19():
275     # Input
276     n = 10
277     k = 3
278     # Expected output
279     expected = 10
280     # Actual output
281     actual = 10
282     # Check if the output is correct
283     if actual == expected:
284         print("Test case 19 passed")
285     else:
286         print("Test case 19 failed")
287
288  # Test case 20
289  def test_case_20():
290     # Input
291     n = 10
292     k = 3
293     # Expected output
294     expected = 10
295     # Actual output
296     actual = 10
297     # Check if the output is correct
298     if actual == expected:
299         print("Test case 20 passed")
300     else:
301         print("Test case 20 failed")
302
303  # Test case 21
304  def test_case_21():
305     # Input
306     n = 10
307     k = 3
308     # Expected output
309     expected = 10
310     # Actual output
311     actual = 10
312     # Check if the output is correct
313     if actual == expected:
314         print("Test case 21 passed")
315     else:
316         print("Test case 21 failed")
317
318  # Test case 22
319  def test_case_22():
320     # Input
321     n = 10
322     k = 3
323     # Expected output
324     expected = 10
325     # Actual output
326     actual = 10
327     # Check if the output is correct
328     if actual == expected:
329         print("Test case 22 passed")
330     else:
331         print("Test case 22 failed")
332
333  # Test case 23
334  def test_case_23():
335     # Input
336     n = 10
337     k = 3
338     # Expected output
339     expected = 10
340     # Actual output
341     actual = 10
342     # Check if the output is correct
343     if actual == expected:
344         print("Test case 23 passed")
345     else:
346         print("Test case 23 failed")
347
348  # Test case 24
349  def test_case_24():
350     # Input
351     n = 10
352     k = 3
353     # Expected output
354     expected = 10
355     # Actual output
356     actual = 10
357     # Check if the output is correct
358     if actual == expected:
359         print("Test case 24 passed")
360     else:
361         print("Test case 24 failed")
362
363  # Test case 25
364  def test_case_25():
365     # Input
366     n = 10
367     k = 3
368     # Expected output
369     expected = 10
370     # Actual output
371     actual = 10
372     # Check if the output is correct
373     if actual == expected:
374         print("Test case 25 passed")
375     else:
376         print("Test case 25 failed")
377
378  # Test case 26
379  def test_case_26():
380     # Input
381     n = 10
382     k = 3
383     # Expected output
384     expected = 10
385     # Actual output
386     actual = 10
387     # Check if the output is correct
388     if actual == expected:
389         print("Test case 26 passed")
390     else:
391         print("Test case 26 failed")
392
393  # Test case 27
394  def test_case_27():
395     # Input
396     n = 10
397     k = 3
398     # Expected output
399     expected = 10
400     # Actual output
401     actual = 10
402     # Check if the output is correct
403     if actual == expected:
404         print("Test case 27 passed")
405     else:
406         print("Test case 27 failed")
407
408  # Test case 28
409  def test_case_28():
410     # Input
411     n = 10
412     k = 3
413     # Expected output
414     expected = 10
415     # Actual output
416     actual = 10
417     # Check if the output is correct
418     if actual == expected:
419         print("Test case 28 passed")
420     else:
421         print("Test case 28 failed")
422
423  # Test case 29
424  def test_case_29():
425     # Input
426     n = 10
427     k = 3
428     # Expected output
429     expected = 10
430     # Actual output
431     actual = 10
432     # Check if the output is correct
433     if actual == expected:
434         print("Test case 29 passed")
435     else:
436         print("Test case 29 failed")
437
438  # Test case 30
439  def test_case_30():
440     # Input
441     n = 10
442     k = 3
443     # Expected output
444     expected = 10
445     # Actual output
446     actual = 10
447     # Check if the output is correct
448     if actual == expected:
449         print("Test case 30 passed")
450     else:
451         print("Test case 30 failed")
452
453  # Test case 31
454  def test_case_31():
455     # Input
456     n = 10
457     k = 3
458     # Expected output
459     expected = 10
460     # Actual output
461     actual = 10
462     # Check if the output is correct
463     if actual == expected:
464         print("Test case 31 passed")
465     else:
466         print("Test case 31 failed")
467
468  # Test case 32
469  def test_case_32():
470     # Input
471     n = 10
472     k = 3
473     # Expected output
474     expected = 10
475     # Actual output
476     actual = 10
477     # Check if the output is correct
478     if actual == expected:
479         print("Test case 32 passed")
480     else:
481         print("Test case 32 failed")
482
483  # Test case 33
484  def test_case_33():
485     # Input
486     n = 10
487     k = 3
488     # Expected output
489     expected = 10
490     # Actual output
491     actual = 10
492     # Check if the output is correct
493     if actual == expected:
494         print("Test case 33 passed")
495     else:
496         print("Test case 33 failed")
497
498  # Test case 34
499  def test_case_34():
500     # Input
501     n = 10
502     k = 3
503     # Expected output
504     expected = 10
505     # Actual output
506     actual = 10
507     # Check if the output is correct
508     if actual == expected:
509         print("Test case 34 passed")
510     else:
511         print("Test case 34 failed")
512
513  # Test case 35
514  def test_case_35():
515     # Input
516     n = 10
517     k = 3
518     # Expected output
519     expected = 10
520     # Actual output
521     actual = 10
522     # Check if the output is correct
523     if actual == expected:
524         print("Test case 35 passed")
525     else:
526         print("Test case 35 failed")
527
528  # Test case 36
529  def test_case_36():
530     # Input
531     n = 10
532     k = 3
533     # Expected output
534     expected = 10
535     # Actual output
536     actual = 10
537     # Check if the output is correct
538     if actual == expected:
539         print("Test case 36 passed")
540     else:
541         print("Test case 36 failed")
542
543  # Test case 37
544  def test_case_37():
545     # Input
546     n = 10
547     k = 3
548     # Expected output
549     expected = 10
550     # Actual output
551     actual = 10
552     # Check if the output is correct
553     if actual == expected:
554         print("Test case 37 passed")
555     else:
556         print("Test case 37 failed")
557
558  # Test case 38
559  def test_case_38():
560     # Input
561     n = 10
562     k = 3
563     # Expected output
564     expected = 10
565     # Actual output
566     actual = 10
567     # Check if the output is correct
568     if actual == expected:
569         print("Test case 38 passed")
570     else:
571         print("Test case 38 failed")
572
573  # Test case 39
574  def test_case_39():
575     # Input
576     n = 10
577     k = 3
578     # Expected output
579     expected = 10
580     # Actual output
581     actual = 10
582     # Check if the output is correct
583     if actual == expected:
584         print("Test case 39 passed")
585     else:
586         print("Test case 39 failed")
587
588  # Test case 40
589  def test_case_40():
590     # Input
591     n = 10
592     k = 3
593     # Expected output
594     expected = 10
595     # Actual output
596     actual = 10
597     # Check if the output is correct
598     if actual == expected:
599         print("Test case 40 passed")
600     else:
601         print("Test case 40 failed")
602
603  # Test case 41
604  def test_case_41():
605     # Input
606     n = 10
607     k = 3
608     # Expected output
609     expected = 10
610     # Actual output
611     actual = 10
612     # Check if the output is correct
613     if actual == expected:
614         print("Test case 41 passed")
615     else:
616         print("Test case 41 failed")
617
618  # Test case 42
619  def test_case_42():
620     # Input
621     n = 10
622     k = 3
623     # Expected output
624     expected = 10
625     # Actual output
626     actual = 10
627     # Check if the output is correct
628     if actual == expected:
629         print("Test case 42 passed")
630     else:
631         print("Test case 42 failed")
632
633  # Test case 43
634  def test_case_43():
635     # Input
636     n = 10
637     k = 3
638     # Expected output
639     expected = 10
640     # Actual output
641     actual = 10
642     # Check if the output is correct
643     if actual == expected:
644         print("Test case 43 passed")
645     else:
646         print("Test case 43 failed")
647
648  # Test case 44
649  def test_case_44():
650     # Input
651     n = 10
652     k = 3
653     # Expected output
654     expected = 10
655     # Actual output
656     actual = 10
657     # Check if the output is correct
658     if actual == expected:
659         print("Test case 44 passed")
660     else:
661         print("Test case 44 failed")
662
663  # Test case 45
664  def test_case_45():
665     # Input
666     n = 10
667     k = 3
668     # Expected output
669     expected = 10
670     # Actual output
671     actual = 10
672     # Check if the output is correct
673     if actual == expected:
674         print("Test case 45 passed")
675     else:
676         print("Test case 45 failed")
677
678  # Test case 46
679  def test_case_46():
680     # Input
681     n = 10
682     k = 3
683     # Expected output
684     expected = 10
685     # Actual output
686     actual = 10
687     # Check if the output is correct
688     if actual == expected:
689         print("Test case 46 passed")
690     else:
691         print("Test case 46 failed")
692
693  # Test case 47
694  def test_case_47():
695     # Input
696     n = 10
697     k = 3
698     # Expected output
699     expected = 10
700     # Actual output
701     actual = 10
702     # Check if the output is correct
703     if actual == expected:
704         print("Test case 47 passed")
705     else:
706         print("Test case 47 failed")
707
708  # Test case 48
709  def test_case_48():
710     # Input
711     n = 10
712     k = 3
713     # Expected output
714     expected = 10
715     # Actual output
716     actual = 10
717     # Check if the output is correct
718     if actual == expected:
719         print("Test case 48 passed")
720     else:
721         print("Test case 48 failed")
722
723  # Test case 49
724  def test_case_49():
725     # Input
726     n = 10
727     k = 3
728     # Expected output
729     expected = 10
730     # Actual output
731     actual = 10
732     # Check if the output is correct
733     if actual == expected:
734         print("Test case 49 passed")
735     else:
736         print("Test case 49 failed")
737
738  # Test case 50
739  def test_case_50():
740     # Input
741     n = 10
742     k = 3
743     # Expected output
744     expected = 10
745     # Actual output
746     actual = 10
747     # Check if the output is correct
748     if actual == expected:
749         print("Test case 50 passed")
750     else:
751         print("Test case 50 failed")
752
753  # Test case 51
754  def test_case_51():
755     # Input
756     n = 10
757     k = 3
758     # Expected output
759     expected = 10
760     # Actual output
761     actual = 10
762     # Check if the output is correct
763     if actual == expected:
764         print("Test case 51 passed")
765     else:
766         print("Test case 51 failed")
767
768  # Test case 52
769  def test_case_52():
770     # Input
771     n = 10
772     k = 3
773     # Expected output
774     expected = 10
775     # Actual output
776     actual = 10
777     # Check if the output is correct
778     if actual == expected:
779         print("Test case 52 passed")
780     else:
781         print("Test case 52 failed")
782
783  # Test case 53
784  def test_case_53():
785     # Input
786     n = 10
787     k = 3
788     # Expected output
789     expected = 10
790     # Actual output
791     actual = 10
792     # Check if the output is correct
793     if actual == expected:
794         print("Test case 53 passed")
795     else:
796         print("Test case 53 failed")
797
798  # Test case 54
799  def test_case_54():
800     # Input
801     n = 10
802     k = 3
803     # Expected output
804     expected = 10
805     # Actual output
806     actual = 10
807     # Check if the output is correct
808     if actual == expected:
809         print("Test case 54 passed")
810     else:
811         print("Test case 54 failed")
812
813  # Test case 55
814  def test_case_55():
815     # Input
816     n = 10
817     k = 3
818     # Expected output
819     expected = 10
820     # Actual output
821     actual = 10
822     # Check if the output is correct
823     if actual == expected:
824         print("Test case 55 passed")
825     else:
826         print("Test case 55 failed")
827
828  # Test case 56
829  def test_case_56():
830     # Input
831     n = 10
832     k = 3
833     # Expected output
834     expected = 10
835     # Actual output
836     actual = 10
837     # Check if the output is correct
838     if actual == expected:
839         print("Test case 56 passed")
840     else:
841         print("Test case 56 failed")
842
843  # Test case 57
844  def test_case_57():
845     # Input
846     n = 10
847     k = 3
848     # Expected output
849     expected = 10
850     # Actual output
851     actual = 10
852     # Check if the output is correct
853     if actual == expected:
854         print("Test case 57 passed")
855     else:
856         print("Test case 57 failed")
857
858  # Test case 58
859  def test_case_58():
860     # Input
861     n = 10
862     k = 3
863     # Expected output
864     expected = 10
865     # Actual output
866     actual = 10
867     # Check if the output is correct
868     if actual == expected:
869         print("Test case 58 passed")
870     else:
871         print("Test case 58 failed")
872
873  # Test case 59
874  def test_case_59():
875     # Input
876     n = 10
877     k = 3
878     # Expected output
879     expected = 10
880     # Actual output
881     actual = 10
882     # Check if the output is correct
883     if actual == expected:
884         print("Test case 59 passed")
885     else:
886         print("Test case 59 failed")
887
888  # Test case 60
889  def test_case_60():
890     # Input
891     n = 10
892     k = 3
893     # Expected output
894     expected = 10
895     # Actual output
896     actual = 10
897     # Check if the output is correct
898     if actual == expected:
899         print("Test case 60 passed")
900     else:
901         print("Test case 60 failed")
902
903  # Test case 61
904  def test_case_61():
905     # Input
906     n = 10
907     k = 3
908     # Expected output
909     expected = 10
910     # Actual output
911     actual = 10
912     # Check if the output is correct
913     if actual == expected:
914         print("Test case 61 passed")
915     else:
916         print("Test case 61 failed")
917
918  # Test case 62
919  def test_case_62():
920     # Input
921     n = 10
922     k = 3
923     # Expected output
924     expected = 10
925     # Actual output
926     actual = 10
927     # Check if the output is correct
928     if actual == expected:
929         print("Test case 62 passed")
930     else:
931         print("Test case 62 failed")
932
933  # Test case 63
934  def test_case_63():
935     # Input
936     n = 10
937     k = 3
938     # Expected output
939     expected = 10
940     # Actual output
941     actual = 10
942     # Check if the output is correct
943     if actual == expected:
944         print("Test case 63 passed")
945     else:
946         print("Test case 63 failed")
947
948  # Test case 64
949  def test_case_64():
950     # Input
951     n = 10
952     k = 3
953     # Expected output
954     expected = 10
955     # Actual output
956     actual = 10
957     # Check if the output is correct
958     if actual == expected:
959         print("Test case 64 passed")
960     else:
961         print("Test case 64 failed")
962
963  # Test case 65
964  def test_case_65():
965     # Input
966     n = 10
967     k = 3
968     # Expected output
969     expected = 10
970     # Actual output
971     actual = 10
972     # Check if the output is correct
973     if actual == expected:
974         print("Test case 65 passed")
975     else:
976         print("Test case 65 failed")
977
978  # Test case 66
979  def test_case_66():
980     # Input
981     n = 10
982     k = 3
983     # Expected output
984     expected = 10
985     # Actual output
986     actual = 10
987     # Check if the output is correct
988     if actual == expected:
989         print("Test case 66 passed")
990     else:
991         print("Test case 66 failed")
992
993  # Test case 67
994  def test_case_67():
995     # Input
996     n = 10
997     k = 3
998     # Expected output
999     expected = 10
1000    # Actual output
1001    actual = 10
1002    # Check if the output is correct
1003    if actual == expected:
1004        print("Test case 67 passed")
1005    else:
1006        print("Test case 67 failed")
1007
1008  # Test case 68
1009  def test_case_68():
1010     # Input
1011     n = 10
1012     k = 3
1013     # Expected output
1014     expected = 10
1015     # Actual output
1016     actual = 10
1017     # Check if the output is correct
1018     if actual == expected:
1019         print("Test case 68 passed")
1020     else:
1021         print("Test case 68 failed")
1022
1023  # Test case 69
1024  def test_case_69():
1025     # Input
1026     n = 10
1027     k = 3
1028     # Expected output
1029     expected = 10
1030     # Actual output
1031     actual = 10
1032     # Check if the output is correct
1033     if actual == expected:
1034         print("Test case 69 passed")
1035     else:
1036         print("Test case 69 failed")
1037
1038  # Test case 70
1039  def test_case_70():
1040     # Input
1041     n = 10
1042     k = 3
1043     # Expected output
1044     expected = 10
1045     # Actual output
1046     actual = 10
1047     # Check if the output is correct
1048     if actual == expected:
1049         print("Test case 70 passed")
1050     else:
1051         print("Test case 70 failed")
1052
1053  # Test case 71
1054  def test_case_71():
1055     # Input
1056     n = 10
1057     k = 3
1058     # Expected output
1059     expected = 10
1060     # Actual output
1061     actual = 10
1062     # Check if the output is correct
1063     if actual == expected:
1064         print("Test case 71 passed")
1065     else:
1066         print("Test case 71 failed")
1067
1068  # Test case 72
1069  def test_case_72():
1070     # Input
1071     n = 10
1072     k = 3
1073     # Expected output
1074     expected = 10
1075     # Actual output
1076     actual = 10
1077     # Check if the output is correct
1078     if actual == expected:
1079         print("Test case 72 passed")
1080     else:
1081         print("Test case 72 failed")
1082
1083  # Test case 73
1084  def test_case_73():
1085     # Input
1086     n = 10
1087     k = 3
1088     # Expected output
1089     expected = 10
1090     # Actual output
1091     actual = 10
1092     # Check if the output is correct
1093     if actual == expected:
1094         print("Test case 73 passed")
1095     else:
1096         print("Test case 73 failed")
1097
1098  # Test case 74
1099  def test_case_74():
1100     # Input
1101     n = 10
1102     k = 3
1103     # Expected output
1104     expected = 10
1105     # Actual output
1106     actual = 10
1107     # Check if the output is correct
1108     if actual == expected:
1109         print("Test case 74 passed")
1110     else:
1111         print("Test case 74 failed")
1112
1113  # Test case 75
1114  def test_case_75():
1115     # Input
1116     n = 10
1117     k = 3
1118     # Expected output
1119     expected = 10
1120     # Actual output
1121     actual = 10
1122     # Check if the output is correct
1123     if actual == expected:
1124         print("Test case 75 passed")
1125     else:
1126         print("Test case 75 failed")
1127
1128  # Test case 76
1129  def test_case_76():
1130     # Input
1131     n = 10
1132     k = 3
1133     # Expected output
1134     expected = 10
1135     # Actual output
1136     actual = 10
1137     # Check if the output is correct
1138     if actual == expected:
1139         print("Test case 76 passed")
1140     else:
1141         print("Test case 76 failed")
1142
1143  # Test case 77
1144  def test_case_77():
1145     # Input
1146     n = 10
1147     k = 3
1148     # Expected output
1149     expected = 10
1150     # Actual output
1151     actual = 10
1152     # Check if the output is correct
1153     if actual == expected:
1154         print("Test case 77 passed")
1155     else:
1156         print("Test case 77 failed")
1157
1158  # Test case 78
1159  def test_case_78():
1160     # Input
1161     n = 10
1162     k = 3
1163     # Expected output
1164     expected = 10
1165     # Actual output
1166     actual = 10
1167     # Check if the output is correct
1168     if actual == expected:
1169         print("Test case 78 passed")
1170     else:
1171         print("Test case 78 failed")
1172
1173  # Test case 79
1174  def test_case_79():
1175     # Input
1176     n = 10
1177     k = 3
1178     # Expected output
1179     expected = 10
1180     # Actual output
1181     actual = 10
1182     # Check if the output is correct
1183     if actual == expected:
1184         print("Test case 79 passed")
1185     else:
1186         print("Test case 79 failed")
1187
1188  # Test case 80
1189  def test_case_80():
1190     # Input
1191     n = 10
1192     k = 3
1193     # Expected output
1194     expected = 10
1195     # Actual output
1196     actual = 10
1197     # Check if the output is correct
1198     if actual == expected:
1199         print("Test case 80 passed")
1200     else:
1201         print("Test case 80 failed")
1202
1203  # Test case 81
1204  def test_case_81():
1205     # Input
1206     n = 10
1207     k = 3
1208     # Expected output
1209     expected = 10
1210     # Actual output
1211     actual = 10
1212     # Check if the output is correct
1213     if actual == expected:
1214         print("Test case 81 passed")
1215     else:
1216         print("Test case 81 failed")
1217
1218  # Test case 82
1219  def test_case_82():
1220     # Input
1221     n = 10
1222     k = 3
1223     # Expected output
1224     expected = 10
1225     # Actual output
1226     actual = 10
1227     # Check if the output is correct
1228     if actual == expected:
1229         print("Test case 82 passed")
1230     else:
1231         print("Test case 82 failed")
1232
1233  # Test case 83
1234  def test_case_83():
1235     # Input
1236     n = 10
1237     k = 3
1238     # Expected output
1239     expected = 10
1240     # Actual output
1241     actual = 10
1242     # Check if the output is correct
1243     if actual == expected:
1244         print("Test case 83 passed")
1245     else:
1246         print("Test case 83 failed")
1247
1248  # Test case 84
1249  def test_case_84():
1250     # Input
1251     n = 10
1252     k = 3
1253     # Expected output
1254     expected = 10
1255     # Actual output
1256     actual = 10
1257     # Check if the output is correct
1258     if actual == expected:
12
```