```
Algorithm 2:
initial\_test\_data := randomly generate a test data from the input domain;
selected_set := { initial_test_data };
counter := 1;
total_number_of_candidates := 10;
use initial_test_data to test the program;
                                                                    ART
if (program output is incorrect) then
       reveal_failure := true;
                                                             Algorithm /2
else
       reveal_failure := false;
end_if
while (not reveal_failure) do
       candidate\_set := \{\};
       test_data := Select_The_Best_Test_Data(selected_set, candidate_set,
                            total_number_of_candidates);
       use test_data to test the program;
       if (program output is incorrect) then
              reveal_failure := true;
       else
              selected_set := selected_set + { test_data };
              counter := counter + 1;
       end_if
end_while
```

output counter;

T. Y. Chen, H. Leung, and I. K. Mak. Adaptive random testing. In Proceedings of the 9th Asian Computing Science Conference, pages 320-329, 2004