# Applicant Check List

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| Applicant | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Recruiter | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Trainer | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Interviewer | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Signature | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| Training program Start date | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Finish date | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Final interview date | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |
| Cause of Interruption | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |

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| **#** | **Ref. (page/ task)** | **Questions** | **Answer (Yes/No)** | **Reviewer’s signature** | **Interview (Yes/No)** | **Interviewer’s signature** |
| **Puzzles, Riddles and Algorithms** | | |  |  |  |  |
|  | 2/0 | Bear walks |  |  |  |  |
|  | 3/1 | Rectangular |  |  |  |  |
|  | 3/2 | 3 baskets with oranges, apples and fruit mix |  |  |  |  |
|  | 3/3 | 8 balls and defect one |  |  |  |  |
|  | 3/4 | Manhole cover round |  |  |  |  |
|  | 3/5 | Cars in USA |  |  |  |  |
|  | 3/6 | Gold bar and seven days |  |  |  |  |
|  | 3/7 | Los Angeles/New York train |  |  |  |  |
|  | 3/8 | Two jars with 50 red and 50 blue marbles |  |  |  |  |
|  | 4/9 | Mirror and reflection |  |  |  |  |
|  | 4/10 | 5 jars of pills |  |  |  |  |
|  | 4/11 | Measure exactly 4 quarts of water |  |  |  |  |
|  | 4/13 | Unlock car door using key |  |  |  |  |
|  | 4/14 | Remove any of 50 states |  |  |  |  |
|  | 4/15 | Four dogs/ants/people at four corners |  |  |  |  |
|  | 4/16 | Helicopter and two trains |  |  |  |  |
|  | 11/60 | Boat and a suit case |  |  |  |  |
|  | 7/10 | Different ways to implement conditions |  |  |  |  |
|  | 7/13 | TIC TAC TOE game |  |  |  |  |
|  | 7/16 | Find a book in a library |  |  |  |  |
|  | 7/18 | Tradeoff between testing and market |  |  |  |  |
|  | 7/19 | Test for given |  |  |  |  |
|  | 8/24 | Deadlocks in a system |  |  |  |  |
|  | 8/27 | RPC cost |  |  |  |  |
|  | 8/29 | Reads-writes problem |  |  |  |  |
|  | 8/30 | Symbols table storage in compilers |  |  |  |  |
|  | 8/33 | 3 ants at 3 corners |  |  |  |  |
|  | 9/44 | Data structure for having n queues |  |  |  |  |
|  | 11/67 | What is a balanced tree |  |  |  |  |
|  | 13/85 | Abstract computer |  |  |  |  |
|  | 14/86 | Delete one element from linked list in constant time |  |  |  |  |
| **Personality** | | |  |  |  |  |
|  | 5/1 | Courses you liked |  |  |  |  |
|  | 5/2 | Instance in your life |  |  |  |  |
|  | 5/3 | Ideal working environment |  |  |  |  |
|  | 5/4 | You are smart |  |  |  |  |
|  | 5/5 | Question on the project listed in CV |  |  |  |  |
|  | 5/9 | Expectation from the job |  |  |  |  |
| **Programming** | | |  |  |  |  |
|  | 6/2 | Sub-array with largest sum in array with positive and negative integers |  |  |  |  |
|  | 6/3 | Duplicates in array with numbers 1..N |  |  |  |  |
|  | 6/4 | Routine to draw a circle. We need to see a circle as results of your program |  |  |  |  |
|  | 6/5 | Prints out an unsigned long in decimal |  |  |  |  |
|  | 6/6 | Number is a power of 2 |  |  |  |  |
|  | 6/7 | Reverse the order of the words |  |  |  |  |
|  | 6/9 | Count the number of ones in a 32 bit number |  |  |  |  |
|  | 7/25 | Reverse linked list |  |  |  |  |
|  | 7/12 | Insert in a sorted list |  |  |  |  |
|  | 7/15 | Multiple a number by 7 |  |  |  |  |
|  | 7/17 | Linked list manipulation. Operations: add element (to the end, to specific index); delete element by index; get element by index |  |  |  |  |
|  | 7/20 | ASCII and Kanji characters |  |  |  |  |
|  | 8/21 | Delete an element from a doubly linked list |  |  |  |  |
|  | 8/22 | Depth of binary tree |  |  |  |  |
|  | 8/23 | Diff of S1 and S2 strings |  |  |  |  |
|  | 8/26 | Lexical analyzer |  |  |  |  |
|  | 8/28 | Prints out a 2-D array in spiral order |  |  |  |  |
|  | 8/31 | Lookup implementation (*not for .Net SDE*) |  |  |  |  |
|  | 9/34 | Shuffle a pack of cards |  |  |  |  |
|  | 9/40 | Convert lower case to upper case characters |  |  |  |  |
|  | 9/47 | Extracting unique elements from a sorted linked list |  |  |  |  |
|  | 9/50 | Sort an array of size N containing numbers 1 ... K |  |  |  |  |
|  | 10/51 | Compress an array by removing duplicates |  |  |  |  |
|  | 10/52 | Compute the sum of integers array |  |  |  |  |
|  | 10/54 | Rand\_n for array of integers of size n |  |  |  |  |
|  | 10/55 | Array of pointers to a very long strings |  |  |  |  |
|  | 10/56 | Remove duplicates from a sorted array |  |  |  |  |
|  | 11/58 | Find elements of fixed list in any other list |  |  |  |  |
|  | 14/87 | Find a loop in linked list |  |  |  |  |
|  | 14/88 | Print out contents of linked list in reverse order without any extra space |  |  |  |  |
|  | 14/89 | Print out the values of binary tree in pre-order/in-order/post-order without extra space |  |  |  |  |
|  | 15/91 | The middle of the single linked list |  |  |  |  |
|  | 15/92 | Reverse bits of unsigned integers |  |  |  |  |
|  | 15/94 | Discrete log of an unsigned integers |  |  |  |  |
|  | 16/96 | Set the highest significant bit of an unsigned integer to zero |  |  |  |  |
|  | 16/97 | Compute f(k)=y |  |  |  |  |