

SAMPLE INPUT/OUTPUT

ODD PC (Abracad)

n = 12

39.34 35.46 24.42 93.48 55.53 72.56 91.19 85.37 91.96 70.77 98.53 49.54
55.90 23.55 99.31 41.63 36.77 52.95 10.82 56.42 70.62 60.21 91.41 96.30

+++ Exhaustive Search
Maximum exchange = 372192.60

+++ Greedy Strategy
Maximum exchange = 352251.03

+++ Dynamic Programming
Maximum exchange = 372192.60

EVEN PC (Cadabra)

n = 24

0.58 0.84 3.31 9.77 1.70 1.91 7.82 3.36 2.59 6.65 0.70 1.50 9.62 4.85 4.78
0.14 6.83 4.32 9.72 7.77 2.91 4.47 1.79 3.68

+++ Exhaustive Search
Maximum profit = 45.820661

+++ Greedy Strategy
Maximum profit = 41.234536

+++ Dynamic Programming
Maximum profit = 45.820661

EVALUATED BY:
ODD PC : PG
EVEN PC : AD

#	Roll No	Name	PC	ES (6)	GR (6)	DP (8)	Main (2)	O/P (3)	Total (25)	Comments
1	08CS3027	Shyam Kumar Murmu								
2	11CS10018	Jakku Sai Vinay Teja								
3	11CS10053	Vishwajeet Saharan								
4	11CS30012	Dibyajoti Das								
5	13CS10017	Deepak Kumar	96	4	3	0	1	0	8	Program does not compile. Why i=1, j=1 in ES? Do not send i,j to GR. DP not done. ES not called.
6	13IM30011	Mohammad Haris Ali Khan	46	4	4	4	2	1	15	Wrong DP output. ES output is also wrong sometimes. Incorrect condition checks in ES: Should check both $l < n/2$ and $j < n/2$ separately. Same problem in GR, better avoid recursion. DP: Initial conditions are very wrong in code and comment.
7	13NA3EP01	Sumeet Kumar	86	6	6	8	1	3	24	Hardcoded n and C[] in main().
8	14AE30006	Bibhash Chandra Mitra	8	6	4	8	2	2	22	GR output wrong. Premature return in GR, case $i = j = n/2 - 1$ does not follow algorithm specification.
9	14CS10019	Gurmeet Singh Ahuja								
10	14CS10047	Tarakaturi Jeevan Kumar								
11	14EC10019	Jaydip Das	39	6	6	8	2	3	25	OK
12	14EC34002	Abhinav Kumar Verma	40	6	6	8	2	3	25	OK
13	14MT30007	Arafat Dad Khan	38	4	4	5	2	3	18	Why are there too much unnecessary code at the beginning? Why convert arrays to vectors? Bad programming styles. Do you know that vectors can achieve the running times given in question? DP: Inefficient initialization.
14	15CS10027	Mathura Tudu	95	3	6	0	2	1	12	Only GR is giving the correct output. DP is fully wrong, while some boundary conditions are not correct in ES.
15	15CS30017	Kiran Mandia	97	2	2	2	0	0	6	Main Program is giving a segmentation fault. Many errors in main. Takes only int and not float
16	16CS10001	Aaryan Sanjay Sarupria	47	1	1	2	1	0	5	Can't compile. Why iostream in c? A and B are integers. What Job Schedule are you printing?
17	16CS10002	Adarsha S L	22	3	3	0	2	0	8	Program does not compile. ES: What is profit(0,0,n)? GR: No return value saved. Logically buggy... DP: Not implemented.
18	16CS10003	Aditya Anand	14	6	6	8	2	3	25	OK
19	16CS10004	Aitipamula Aravind	13	6	6	2	2	2	18	Dynamic programming is always giving 0 as output. This may be because of the max function, which is actually swap. Also, boundary conditions do not seem correct. No comments either.
20	16CS10005	Ankit Kumar Gupta	67	2	6	3	2	1	14	Only greedy is giving the correct output, not the other two. No comments in DP, also the variables seem to be interchanged.
21	16CS10006	Apoorva Kumar	59	2	6	1	2	0.5	11.5	Only greedy algorithm is giving output (rounded to integer) but not the other two. Dynamic programming recurrence seems to be wrong.

22	16CS10007	Arpit Jain	20	6	6	8	2	3	25	OK
23	16CS10008	Arun Singh	25	3	6	3	1.5	0.5	14	Only greedy is giving the correct output, that too truncated to int. Faulty logic with DP
24	16CS10009	Bhukya Raviteja	65	6	6	4	2	2	20	ES and Greedy giving the correct solution but DP is not. No comments with DP. Also, the boundary conditions do not seem incorrect.
25	16CS10010	Boddu Mahesh	83	0	6	0	1	1	8	Only produces output for greedy. DP and ES not reported.
26	16CS10011	Boppana Susanth	66	6	6	4	2	3	21	DP: Seg Fault. DP implementation very incorrect. Why should you always have $i = j$?
27	16CS10012	Buddhapriya Ashwajit	91	6	6	0	2	1	15	Did not code DP
28	16CS10013	Chelsi Raheja	30	6	6	8	2	3	25	OK
29	16CS10014	Chilaparasetty Rajesh Khanna	81	6	6	3	1	0	16	Coded only for specific values and can't be tested for other values without changing the code. DP logic is not correct.
30	16CS10015	D Nachiketh Reddy	79	6	6	2	2	2	18	DP is always giving 0 as the answer. Faulty Logic in DP
31	16CS10016	Deepu Kumar	21	6	6	3	2	2	19	DP is not giving correct output, conditions not correct.
32	16CS10018	G Rahul Kranti Kiran	54	6	6	8	2	3	25	OK
33	16CS10019	Gangireddygari Nanda Kishore Reddy	74	6	6	8	2	3	25	OK
34	16CS10020	Gaurav Kumar Jha	12	6	6	8	2	3	25	OK. DP could be simplified.
35	16CS10021	Gavali Harshad Abhiman	94	6	6	8	2	3	25	OK
36	16CS10022	Goru Suresh	77	6	6	2	2	2	18	DP is not giving correct output, faulty logic.
37	16CS10023	Goutami Nayak	29	1	1	1	1	0	4	Program does not compile. Why do you need sorting? Also, logics do not seem correct.
38	16CS10024	Govind Choudhary	72	6	6	8	2	1	0	Verbatim copy of 16CS10026 (pow1 very buggy)
39	16CS10025	Gudipati Sai Anudeep	80	6	6	8	2	3	25	OK
40	16CS10026	Himanshu Patankar	92	6	6	8	2	3	0	Verbatim copy of 16CS10024
41	16CS10027	Inkulu Sampreeth	75	3	6	2	2	1	14	Program does not run - Segmentation fault. DP logic does not seem correct.
42	16CS10028	K Kundan Nag	87	6	6	8	2	3	25	OK
43	16CS10029	Kadaru Sai Ravi Teja	78	2	6	4	2	1	15	ES output wrong, no DP output. ES implementation quite faulty. DP implementation is like exhaustive search - no memoization.
44	16CS10030	Kadumuri Hari Prasad Raju	76	6	6	4	2	3	21	DP implementation is like ES, no memoization.
45	16CS10032	Kothapalli Vineeth	64	2	0	0	2	0	4	Program does not compile. ES: This is not exhaustive search. GR, DP: Essentially not implemented.
46	16CS10033	Lingam Vishal Reddy	11	6	6	8	2	3	25	OK
47	16CS10034	Mehul Kumar Nirala	57	5	5	3	2	2	17	ES and GR are giving correct output, truncated to integer. DP is giving a wrong output, logic not correct.
48	16CS10035	Mulumudy Vyshnav Rohith Reddy	63	6	6	2	2	2	18	DP is giving a segmentation fault. Also, the logic does not seem correct.

49	16CS10036	Nandha Vrajesh Ashwin	16	6	6	6	2	1	21	ES output has small error (code seems fine though). DP output wrong. DP code: Initialize at n/2 not n/2-1.
50	16CS10037	Nanduru Saismaran	84	5	3	7	2	2	19	GR output wrong. ES: Bad ; before +ans. GR: same bad ;. Recursive values are not returned. DP: Why is the global variable jk used?
51	16CS10038	Nimmala Divya Tejeswini	28	6	6	3	1	1	17	All outputs are zero. Bad semicolon after for loop (populating C), so no C[i] is actually read. Corrected ES and GR outputs OK, DP output wrong. Very faulty logic for DP.
52	16CS10039	Nishant Chandel	61	6	2	1	2	0.5	11.5	Program does not compile. DP is always giving a 0. Only greedy is giving a correct output after fixing the bug.
53	16CS10040	Nitish Kumar Rai	69	6	6	8	2	3	25	OK. Try using standard libraries instead of stdc.h
54	16CS10041	Param Mangal	88	6	6	8	2	3	25	OK
55	16CS10042	Rahul Kumar	56	6	6	8	2	3	25	OK
56	16CS10043	Rakesh Bal	71	6	6	8	2	3	25	OK
57	16CS10044	Rathi Piyush Nandkishor	18	6	6	6	2	2	22	DP output slightly wrong. This is because the base cases are not handled properly. $i = 0$ does not imply $sum1 = 0$, because there may be items remaining in the right. Likewise for $j = 0$.
58	16CS10045	Ray Saurav Prabhakar	24	6	6	8	2	3	25	OK
59	16CS10046	Rupak Kumar Thakur	48	6	4	8	2	3	23	GR: while loop should have <code> </code> (not <code>&&</code>).
60	16CS10047	Saurav Likhar	93	6	6	1	2	2	17	DP is giving a segmentation fault. Also, the logic seems buggy.
61	16CS10048	Sayan Sinha	58	6	6	8	2	3	25	OK
62	16CS10049	Shubhanan Shriniket	19	6	6	8	2	3	25	OK
63	16CS10050	Swatantra Kumar Mahato	23	2	6	1	1.5	0.5	11	Program does not compile. After fixing the bug, only greedy is giving the correct output on one i/p. Does not run on another.
64	16CS10051	Vaibhav Poddar	89	6	6	4	2	2	20	ES and GR giving the correct output but not DP. Base conditions not taken care properly.
65	16CS10052	Vallala Ajay	85	6	6	5	2	2	21	Dynamic is not giving the correct output always.
66	16CS10053	Vedic Partap	60	6	6	8	2	3	25	OK
67	16CS10054	Vishal Mishra	68	6	4	8	2	3	23	GR: The condition $(i+j) \neq n$ is not correct.
68	16CS10055	Vytla Dinesh Chandra	90	5	2	0	1	2	10	No DP output. GR: $(i+j) \leq n$ is not the correct condition. DP not implemented. No efforts on indentation (Penalty: -4 adjusted in different parts).
69	16CS10056	Vignesh Viswanathan	17	6	6	8	2	3	25	OK
70	16CS10057	Himanshu Mundhra	70	6	6	8	2	3	25	OK
71	16CS10058	Lovish Chopra	49	6	6	3	2	2	19	DP is not giving the correct output, buggy logic.
72	16CS10059	Aurghya Maiti	55	6	6	8	2	3	25	OK
73	16CS10060	Swastika Dutta	29	6	6	8	2	3	25	OK
74	16CS10061	G Vishal	15	6	6	8	2	3	25	OK

75	16CS30001	Aakash Naik	36	3	4	3	2	0	12	All outputs are incorrect. ES: No return value. GR: while condition should have (not &&). DP: Bad initial condition, and bad recursive definition of T[i][j].
76	16CS30002	Aman Bansal	19	6	6	4	2	2	20	DP is not giving the correct output, buggy ogic.
77	16CS30003	Aman Kumar	37	6	6	8	1	2	23	All the outputs are wrong. In Gr, when a[i]>b[j] why are you choosing b[j]?
78	16CS30004	Appammagari Sravanthi Reddy	53	6	6	8	2	3	25	OK
79	16CS30005	Arijit Kar	45	6	6	8	2	3	25	OK
80	16CS30006	Ayan Zunaid	34	6	6	8	2	3	25	OK
81	16CS30007	Ayush Mahajan	26	6	6	7	2	3	24	O(n^2) handling of DP table initialization – can be improved.
82	16CS30008	B Kushal	71	0	2	2	1	0	5	The program does not compile, full of errors.
83	16CS30009	Eeshan Gupta	44	6	6	7	2	3	24	DP: Access to dp[n/2][n/2+1] and dp[n/2+1][n/2] should be avoided.
84	16CS30010	G Chandan Ritvik	23	6	6	8	2	3	25	OK
85	16CS30011	Ishan	52	6	6	8	1	3	24	GR and DP should better return the optimal costs.
86	16CS30012	Ishwarkar Rohan Shankar	38	4	3	4	2	1	14	Incorrect ES and DP output. ES: Why return 1? GR: All cases not handled, like l = 0 but r < n-1. DP: Formula for T[i][j] is very wrong.
87	16CS30013	Jagadeesh Killi	16	4	6	2	1	0	13	Program does not compile. ES: More boundary conditions need to be checked. DP implementation incomplete. Random input?
88	16CS30014	K Nikhil	17	0	2	2	1	0	5	Malloc error in ES, wrong outputs in others.
89	16CS30015	Kemburu Sai Surya Teja	12	3	3	2	2	0	10	ES, GR outputs incorrect. DP output hangs. ES and GR: Incorrect initial conditions – don't return the cost only. DP: Very faulty logic (left, right not compared anywhere).
90	16CS30016	Kethireddy Rishith Reddy	13	0	6	0	1	0	7	Program does not compile. Too many syntax errors. After fixing the erros, only greedy output is correct.
91	16CS30017	Kumar Aniket	51	6	6	0	1	2	15	Only GR and ES output, no DP output
92	16CS30018	Lakkam Sai Krishna Reddy	15	6	6	8	2	3	25	OK
93	16CS30019	Manad Mishra	48	4	3	3	2	1	13	GR output wrong. DP output slightly wrong. ES: Condition i == n is not sufficient. GR: What is flagl = 0 and C[l] < C[r] (also flagl should be set to 0 when l becomes -1). DP: Table dimensions should be n/2+1. Base cases commented, why? Then, why does i srtart from n/2-2 but j from n/2?
94	16CS30020	Manthan Parashar	35	4	4	8	2	1	19	ES and GR do not always produce the correct results
95	16CS30021	Mareddy Aravind Reddy	24	0	3	0	1	0	4	No output (Seg Fault). Only GR implemented, but the function is full of bugs. main() has & missing in scanf. Corrected code gives very faulty GR output.
96	16CS30022	Nikhil Nayan Jha	39	4	6	8	2	3	23	Takes a long time even for n=12
97	16CS30023	Nitesh Meena	43	6	6	8	2	3	25	OK

98	16CS30024	O S Raju Ganesh Nayaka	22	0	6	2	2	1	11	ES, DP outputs incorrect. ES implementation is same as GR. DP: Incorrect initialization and update. dp should be initialized to 1 in while loop.
99	16CS30025	Paritosh Sinha	20	6	6	8	2	3	25	OK
100	16CS30026	Peruri V S L Hari Chandana	55	6	6	4	2	2	20	DP is not giving the correct output. Some boundary conditions do not look correct.
101	16CS30027	Potnuru Anusha	56	6	6	8	2	3	25	OK
102	16CS30028	Pruthvi Sampath Chabathula	8	5	5	7	2	1	20	ES and GR outputs slightly incorrect. ES: No return value when $i=j=n/2$. Same problem with GR. DP: $p[n/2][n/2]$ not initialized but used in initialization for loops.
103	16CS30029	Sahare Prashik Siddharth	31	6	6	8	2	3	25	OK
104	16CS30030	Sai Saketh Aluru	11	6	6	8	2	3	25	OK
105	16CS30031	Sankalp R	42	6	6	8	2	3	25	OK
106	16CS30032	Seelaboyina Sasi Bhushan	9	2	5	0	1	1	9	Only ES and GR, GR gives the correct output. Bad indentation.
107	16CS30033	Shaikh Moin Dastagir	49	6	4	4	2	1	17	Only ES is giving the correct result. Why are you calling ES from GR? Faulty logic in DP.
108	16CS30034	Shashwata Mondal	18	4	6	2	2	2	16	ES output incorrect. ES: If i and j are both $n/2$, return 0. DP: This is exhaustive search without memoization.
109	16CS30035	Shubham Gautam	27	6	6	4	2	2	20	Only ES and GR are giving the correct output. Boundary condition not correct in DP.
110	16CS30036	Sudutt Uday Harne	40	6	6	4	2	2	20	DP output incorrect. DP code: Incorrect initial condition (i_{max} and j_{max} should be $n/2$). $T[i_{max}][j_{max}]$ not initialized but used.
111	16CS30037	Uppada Vishnu	10	4	3	2	2	1	12	ES takes too much time, output not fully correct. GR and DP output wrong. ES: j should be $\leq n/2$ (not n). GR: Same problem. Plus cases when one of i, j becomes $n/2$ are not handled. DP: Both init and update are seriously buggy.
112	16CS30038	V Nikhil Reddy	29	6	6	8	2	3	25	OK
113	16CS30039	Veligeti Vineeth	69	2	6	3	2	1	14	Only GR is giving the correct output.
114	16CS30040	Vivek Gupta	41	6	6	8	2	3	25	OK
115	16CS30041	Kayastha Dhruv	46	5	6	8	2	3	24	ES: left and right may use $c[-1]$ and $c[n]$ during initialization.
116	16CS30042	Aditya Rastogi	33	6	6	8	2	3	25	OK
117	16CS30043	Omar Eqbal	25	6	6	4	2	2	20	DP is not giving the correct output.
118	16CS30044	Sarthak Chakraborty	32	4	6	8	2	2	22	Incorrect ES output. ES code: Why $\text{pow}(0.9, 20) * 7.7706$?