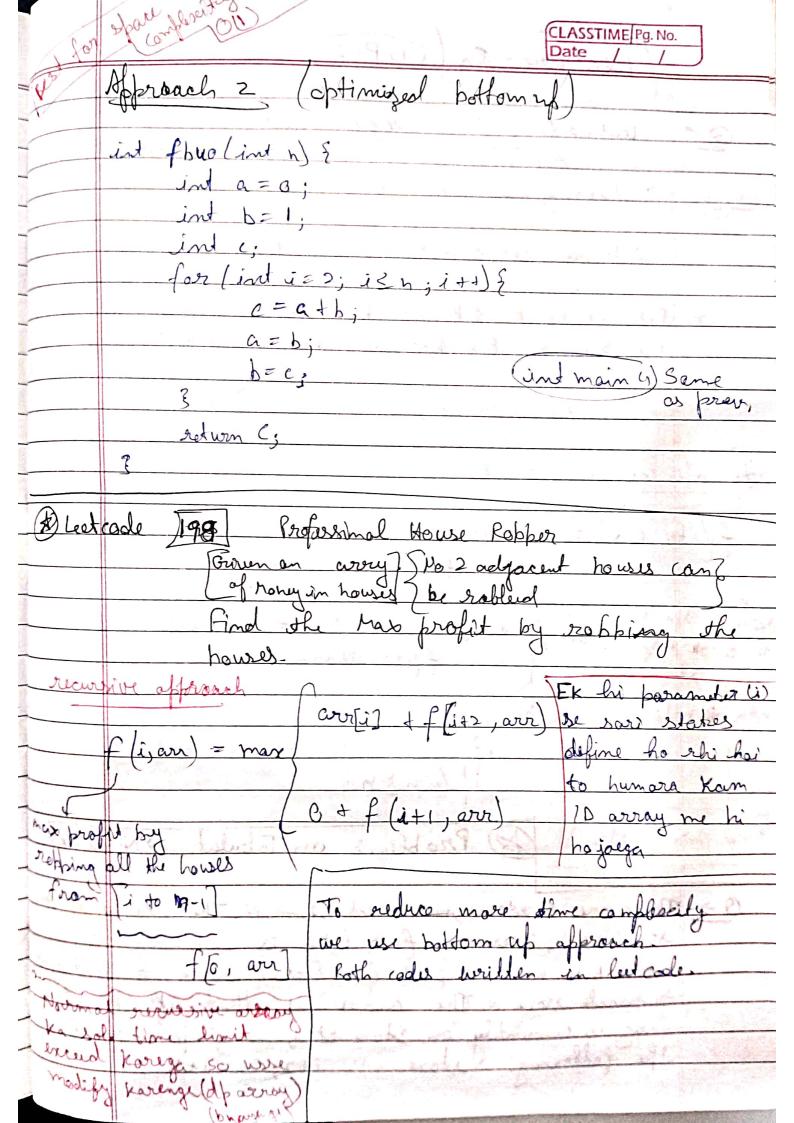


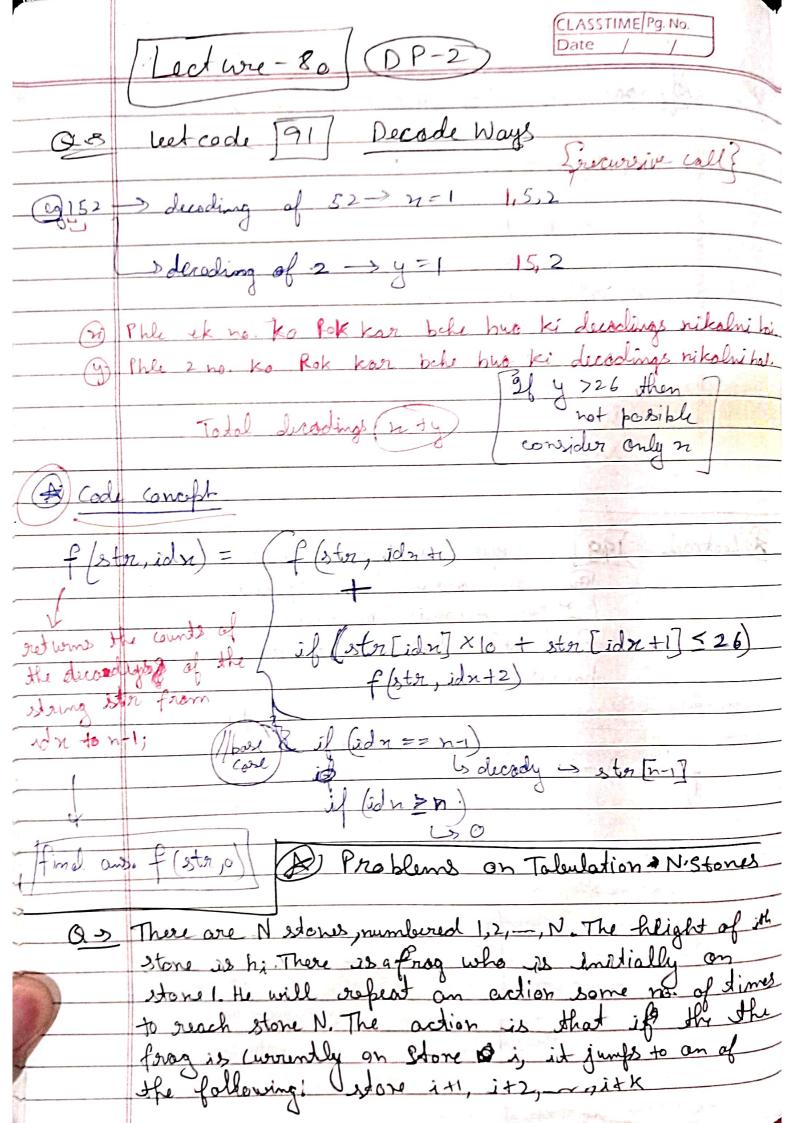
		CLASSTIME Pg. No. Date / /
	Overedy	Dynamic Programing
	It does not necessarily consider the future	Some the solution to subfrollers
Sirin	choice of the current	the same subproblems multiple
(1)	The greedy affroach is gree generally faster and	G) Dynamic programming guarantees the optimal sol.
~	simpler, but may not always provide the optimal solution.	but is slower and more Complex.
-	Where to Use DP?	Litter Litter W. C. C.
	The optimal structure	es or overlapping sub problems
73	mbr	(Top Down) (Bottom Up)
(Now)	Where to the DP D->> S	State of the DP
	Ø →	How the subproblems are
	3 => ,	related / identify formula boto them. doring the results once completed.



	Date / /
Z)	Solving Fibonacci by offlying Dynamic Programing
	sup (1) (2) written in page 1
	Shef 3 > Make an array to store the values which are founded once. So that there values (not find again).
•	for f(n) there are (n+1) unique states
#	using namespace std;
	Using namestace std;
	Vector < int > db; I store and for states which which are computed for the first.
7	which are computed for the first.
	1200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	if $(n = 0 \text{ or } n = = 1)$ return m ; if $(dp(n) \neq -1)$ return $dp(n)$;
	if (dp[n] \neq -1) return dp[n];
	return dp[n] = f[n-1] + f(n-2);
	3 1
	Int main(){
	int n;
	Cim>>h;
	dp. resize $(n+1,-1)$; (out $<<$ $<$ $<$ $<$ $>$ $>$ $>$ $>$ $>$ $>$ $>$ $>$ $>$ $>$
	return o;
	3
Memo	Botioni-Ek bdi problem se choli problem par jaa rhe
	ho phier vapis are the ho or all buch me
Tacus	kbhi bhi ofna koam kar stete ho kuki asip
1 oppo	afri volues store karva oche ho.
	(i state lai colle late)

Talul	ation > Doven ward (Bottom UP) approach
	Chati se badi problem ki terf jaate hain.
114	lacia
ireach of preach	nam.
appreci	roden ktoucture maintained
	order Structure maintained >> konsi -2 sub problems Ka Use krke boli Sub- problems Salve hangi.
	tali al la land Salve hanging
	function jetre variables pe defend karege and come dimensions ti array banegi
	de alia a Ki manan
	ammoiore is accepting
	To I we expland ke Salve karage than
	John Sur provide de la lice de la grablem aguai
	Unke salve have a page of bradden molded poly
	Joss of rulaid many see production
	Jab tun sutfrablens ko Solve karage than Unke Solve have k baad to bigger problem aayeji loss whi needed shagi Sub problem needed nahii hogi. Ilska afare varant kor skee haing
W/	en [0]11121311
	lay Collins
4	
	7 YA.
	Continued to previous Bibonacci Code!
. (Code)	Aboroch &
	int fbu (int n) & if (n = =0 n == 1) ruturn n;
	o est db. nesige (n+1,-1);
1	dp[0] = 0;
4	dp[1]=1;
	for (int i=2;) < d sign (); itt) {
· ·	dp [i] = dp [i-1] + dp[i-2];
1	3
\h	return de[n];
1	The state of the s
A Comment	





	CLASSTIME Pg. No. Date / /
	Here a cost of hi-his is incurred where is is the stone to land on. Find the minimum passible total rost incurred before the frog reaches stone N.
(ف	Find the minimum passible total rost incurred
	before the frog reaches stone N.
	infred 1 h = 5, K = 3, Arr = 10,30, 40,50,20 output: 30
solis	f (height, i, K) = min(h: - h) + f (heighte, i+1, b)
	h; -h; 2 + f (heights, i+2, k)
min	cost to reach (n-1)th (h; -h;+3) + f (heights, i+3, k)
Ston	e from it stone
-	f (height, i, K) = min $\begin{cases} h_i - h_{i+1} \\ h_i - h_{i+2} \\ \end{cases} + f (heights, i+1, k)$ cost to reach $(n-1)^{th}$ $\begin{cases} h_i - h_{i+2} \\ \end{cases} + f (heights, i+3, k)$ e from ith stone max Katimat allowed. $\begin{cases} h_i - h_{i+k} \\ \end{cases} + f (heights, i+k, k)$
	f(heights, i, k) = min (f (heights, i+g, k))
	Y JE[I,K]
	V Je [I, red
	for line is to
	for $(j=1, j \le k, j+1)$ cons = min (ans) f (heights), $i+j,k$)
Code	
	# include (vertan)
	wing namespace stol;
	Verton Cint Sdp;
16	f (Vector < int > & heights, int i, int h) & if (i== heights, size() - 1) return 0;
	if (dp (i) = -1) red won dp [i];
	int and = INT_MAX,
	for (in) j=1; j < k; j++) {
	if (i+j > heights. eige() break: ans = min (ahs, ash (heights i) +
	Thim (was) with the said of

Between defil = ans;

	Date	
	int flu (vector & int > & coins, int x, int n) {	1
	Vector (int) dp (1000005,0);	THE RESIDENCE SECURITY OF THE PROPERTY OF THE
	int MOD = 100000007;	
	dp[0] = 1;	
	for (int j=0; j <n; &<="" j++)="" th=""><th></th></n;>	
	//go to each coin	
	for (int i=1; i < ×; i++) {	
	if (i-coins [j] < 0) contine	4.45
	do [i] = (do [i] % MOD+	
	dh [i - (ain 8 [i]]%MOD)%MOD,
	3	J/01 10 0 1 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0
	3	
	return dp[X];	
	2	
	int main() {	H
	int hi	
	Cin>>h;	
	intx;	
	Vector < int > coins (n);	
	for (int i=0; i <n; (in)="" (oins="" d++)="" e)<="" th=""><th>i];</th></n;>	i];
	cout < fbu (coins, x, n);	
	B return 0;	
de Las as	1	
		8.44