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| | top (); -> 30 -> [next index -1] |
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| | Size() -> (next index) |
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| | Is empty () -> (next index ==0) else |
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| | are a c) better a manufacture and truly po p. 42 |
| | Class StackUsing Array } |
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| | Int & data i |
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| | Stackusingarunay (int totalsize) } |
| | data = new int [total size]; |
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| | 11 Crock weather Stack is empty or not |
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| | if (next index == 0) gie turino luce; |
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| | else returnfalse; |
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| 3 | Void bush (int element) } |
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| | if (next index == Capacity) { |
| - 6 | |
| 1 | Cout << % Stack full " << endl; |
| | see twin ; |
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| | data [next Index] = Clement; |
| | mext index ++; |
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| | 11 Delete Element | 2 toca |
| | | dry mill |
| | Int pop () { | 312 |
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| | if (isempty (3) } | |
| | the many makes at market the second | - H. Cros |
| | Coux & & Stack is empty 3° < and | e pand |
| 4 | Stotusin Int-MIN; | |
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| . 3 | 11 Display the value at top of St | tack. |
| | int top () } | |
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| | if (Isempty ()) | |
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| | Cout << " Stack is empty " << | endli |
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| Marie Lawrence | राजी महस्तर • |
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| Cout & 2 (31. top () < < endl; | -) 40 |
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| Cout << S. pop () << endl | ;) yo |
| Cout < C S. pop() < c andl | 30 |
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| Gut cc S. Isompty () = c en | xe; } → false |
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| N. 6. | | DYNAMIC STACK? |
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| -gi | | Note > Pere viously, we saw that we |
| a c | | were having andtrainer on length size |
| 4 | daske | Were having andtoraints on length size of ARRAY once the size is mittended |
| * | | we Can't increase it |
| 1/4 | | |
| ¥- | | Now we will see how we can |
| · P | | demove Size Gonstraints Using Dynamic |
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| | | " Just Suit X X (GD) Joney 2 |
| | • | Stack using array () } |
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| | | data = new int [4] ; 11 Decided by us |
| | | next index = 0 3 |
| | | Capacity = 4; / Decado by Us. |
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| 4 | | general designation of the second |
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| | | void push (int clement) |
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| w- | | if (next index = = Capacity) |
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| 4- | | <i>\(\)</i> |
| - | | 11 New data made of Doubles size |
| -4- | | Int roudata = row int [2 x Capacity] |
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| | | 0.8 = 111 |
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| | 11 Copying values of Oxiginal data to new data |
| | |
| | for (int i=0; i < Copacity i itt) } |
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| | nouvanter [i] = data [i]; |
| | 3 Total Contract |
| | Capacity = 2 9 // twicod the Capach |
| | delete () data; |
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| | 3 - Was I - Land on the same of the same o |
| | data [next index] = Clement ; |
| | nextindex ++; |
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| 4 | Thirty of S. T. XXXX VXXII |
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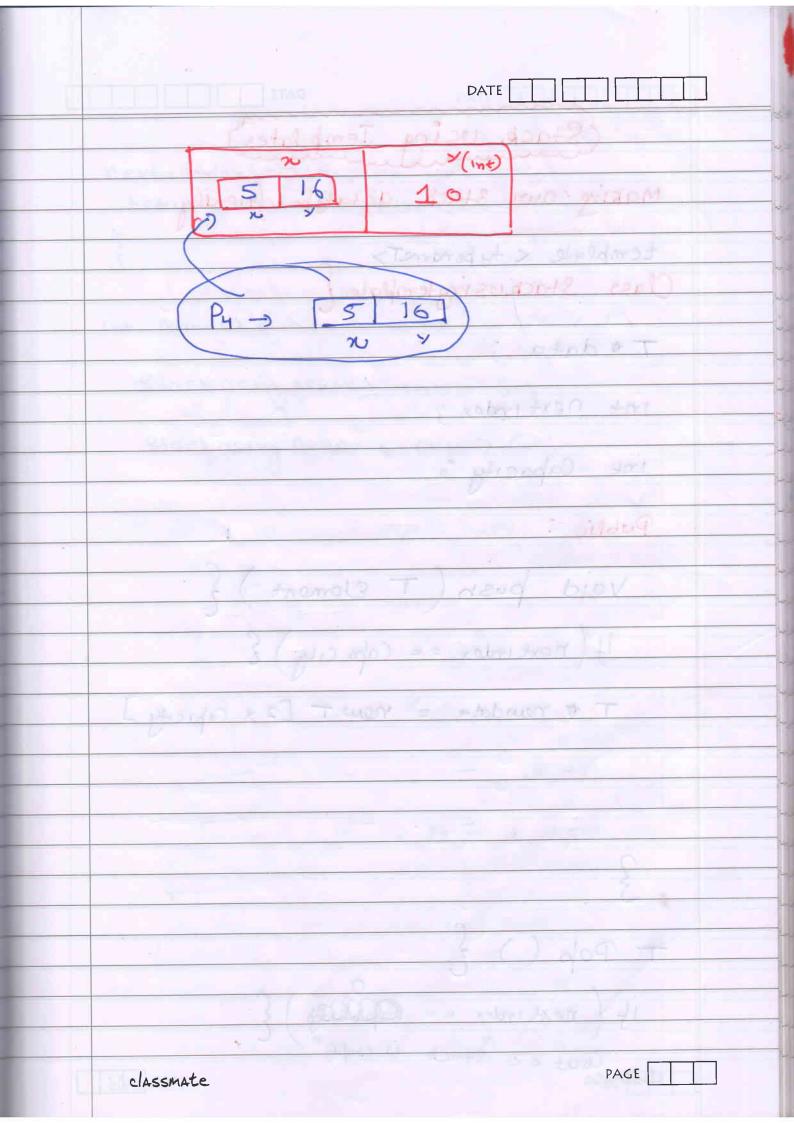
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| P1. ge+ x (10); | YV |
| P1. set x (20); | |
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| P2, Set x (100.34) P2, Set y (34.21) |) 13 - 441 > oud |
| P2, Set 9 | |
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| | So, pore v rously; to the |
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| | We leante TEMPLATE |
| 7 | (1) |
| | We saw we Can Change type of x and y |
| A LELLOW | What if 9 want both variable below to diff dot |
| 1 | V - Double |
| | x -x -> integurbolom # |
| | 12 1542 programor swize |
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| 14-1 | template < type name T , type name V > |
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| | Main + |
| *** | bais < int, double > p1; |
| - | pausi (Int , alouste) |
| | by Setx (100); -> Integral |
| | |
| 7-4- | p1. Se+y (100.32); → Double |
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| What if we want to Make triplet | | |
| to some of late (The below 1/2 tuber () | | |
| tempfate < typename T, typename C) | | |
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| paix < int, float, double > p1 ; | | |
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| OR | | |
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| P2 [15 1.6] int 10 | | |
| P2 (15/10) int 10 | | |
| T 1 VY Town this Still | | |
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| 62. Sety (10) | | |
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| 1 (31) (31) (31) (31) | | |
| P2(x) accepts a pair so we need to creake | | |
| a pain . Oar De Alle | | |
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| pair (int) int) py | | |
| рч. 8e+x(15) ; рч. Se+ y (16) | | |
| 54. 8c+x(15) > P4. Se+ 9 (10) | | |
| 62. 3etx(64); | | |
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| | To get the Values | |
| | thing the property to any fi | +ellul I |
| | Contraction Tales a state of the contraction | |
| Two Ton | P2. get y () -> 10 ; | |
| | | |
| | Pr ant x() apt x() -> 15 | ; |
| | P2. go+x(). get x() -> 15 | and American Land |
| | P2. get n(). get y() -> 16 | ; |
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| | Sal Jones Come o and > sing | |
| | Int Main () { | |
| No. | | JAKES III |
| The state of the s | Pair < Pair < Int, Int > 1nt > 1 | 22 ; |
| | | |
| · | P2. Set Y (10) | |
| - N | | |
| | Paix < int, Int > Py; | |
| | | |
| | P4. Set X(5); | |
| | | |
| | Ay . Set y (16) 3 | / = |
| | Party account to the control of the | |
| | Olt 2000. | |
| | | |
| | · P2. Set N (P4) | |
| | | |
| Co | Cout = < P2. get x(). get x() < < 19 19 5 < P2. get x(); | XXL) . get > |
| | < C p2. get y(); | V |
| | Par Sted May : | |
| Ou | ethylat > 5, 16, 10 | |
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| | (Stack using Templates) |
| 10 | Making own Stack datatype friendly |
| | |
| N- | Class Stackusingtemplate |
| 1 | T * data; |
| | int next Index; |
| | int Capacity : |
| | Public: |
| | Void bush (T Elomont) { |
| | if (next index = = capa city) & |
| W | T * newdota = new T [2 x Capacity] |
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| | The Date () S |
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| 19- | if next modex == @ Dais |
| | if (next modex = Coloring) { Cout < c Stack is cmp6 " classmate PAGE PAGE |
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| tob Children and The Control of the |
| next index being prize 200+85 |
| return data [next index]; |
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| S Par Life warming prize about a spirit |
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| Stackusing ARRAY (Int > S; |
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| Node & head i |
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| $\frac{\text{bush}}{\text{bush}} \rightarrow O(1) \qquad O(1)$ |
| bob > o(1) o(0(n) |
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| tob > 0(1) |
| |
| 8120 -> 0(1) |
| 15 and 1 |
| isempa 30(1) |
| Stack (prsk(10) |
| |
| Node & head is push(20) |
| 17t Size 3 |
| Stack() ? |
| tail = NULL; ROUGO) |
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| top() { |
| 7900) |
| Return tail + data is should see 1 |
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| 20p() -) 30 |
| b) we need to Maintain free |
| and tail will go to provious |
| So its oney possible if we travel to whole LL |
| Colon Description of the state |
| h |
| 10 -> 20 -530 -> 48 -> NULL |
| Void bush white some and the |
| h — ÷ suues = +xor € eist |
| 10 >20 -320 |
| Li O |
| Maurandu - ment le hent le la parti |
| pop () -> tall = temp; |
| pop () → tall = temp; pop · → tail = temp; |
| |
| Class Stack & Stack Est |
| |
| head -> null hand 4 most |
| push (10) i [10] NULL → Head |
| POSIO (10) |
| So fac Head -> [70] MULLI : MARG |
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| Push (20) |
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| Head 7 20 10 min |
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| | 57. | Int data; |
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| | · | Node (int data) { |
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| | <u>N</u> | this - data = data ; |
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| | · Cla | SS Stack { |
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| | N. | Node & head; |
| | N. | int size; // no of clements present 10 stack |
| | i/ | Property of A. C. Joysod |
| | to. | Public: Land lating both makes |
| | | FOGAIC : |
| H | | Stack () & GS 7249 |
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| | 0 | hoad = NULL ; |
| | | 3 classmate Size = 0 ; PAGE |
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| | Int getsize () { |
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| | returno Size : // this will areturn Size. |
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| | 3 westers |
| | Later Annual State of the second |
| | bool 1s empty () { |
| | bool 1s empty () { |
| | Stetum Size = = 0 il/True/False depending |
| | Upon Size is empty |
| | al not |
| | the same of most cold tout and the |
| | Void push (int Element) { |
| | |
| | Node & new node = new node (Element); |
| | Start care a Silver take () |
| | newn ode → next = head; |
| | |
| | head = new node is |
| | |
| | Size ++; (as) Azus. 2 |
| | (201) |
| | S person (30): |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| | Int pop () } it (isempty ()) greturn 0; |
| 54. | |
| | Int ans = head > data; |
| | Node + temp = head; |
| | head = head - next; |
| | data la levela ! |
| | classmate 812e; PAGE |
| | |

| | | DATE |
|--|--------------------------|--|
| | Int top O & 30 | esiste 4mi |
| | if (is empty ()) { | 2 4 10 12 4 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| | | |
| | Return O; | |
| | | Agord 21 Dood |
| | greturn head 3 date | |
| <u> </u> | Pareta later data) | |
| 34 | # include < los tream > | |
| | Using nomespace Sta: | rand blov |
| - 1 | ine Main () } | Made A Days |
| | | |
| | Stack S : | showers. |
| | S. push (10) in | Eng.d |
| | S. push (20); | + 4 4 512 |
| | | CII |
| 9 | S. push (30); | Mary and the first of the color |
| | S push (40) i | f (0) yed to |
| | Cout cc S. top () < c es | de |
| | Cout << 3. pop() << 0 | rd! |
| e de la companya de l | Gut CC S. pop () CC CM | ما المام |
| 1-1- | - most leathlast to be | orit statab |
| | classmate | PAGE |

| | DATE DATE | | |
|---|--|-------------------|--|
| | Cout < L S. get Size () < < | enal. | |
| | | t-Place dollaring | |
| | Cout 66 8. isempty () < | < ende: | |
| | - Indian and American | | |
| | | | |
| | Inbuild Stac | R.) | |
| | | 1 | |
| | # Include < Stack | 7 Kbits/G++. 177 | |
| | | | |
| | C | | |
| | Int Mam () & | Push () | |
| | II Course of the state of the s | pop () | |
| | 11 Creation of Stack | 1s emptor () | |
| | Stack <int> S;</int> | Size () | |
| | JIACK TIMES S | top() | |
| | 11 Push openator | 1 | |
| | HILLREY WAY THE SEE HE | STACK | |
| | 8. bush (2); | Licksonia divil | |
| | M. The Lots of the Mast helici | CHILDREN SET THE | |
| | S. push (3); | | |
| | | | |
| | 11 pop operation | | |
| | S bob () | | |
| | Cout < C S. Size (Prod! | | |
| | Cout < c S. Size < c enal: Cout < c Clement at top " << S.top () < c enal | | |
| | | | |
| | Cout < Stack is empty 2 < energy classmate | | |
| | Cout < Stack is embter 2 c enc | el; | |
| 2 | CIASSMATE | PAGE | |