| 17 | : |
|----|---|
| | Stack |
| | 108/3-1 |
| | |
| * | what is stack ? |
| 4 | Stack is an order list in which Elements |
| | cize to be inserted and deleted From |
| | one end called top end. Stack is |
| | LIFO: Last in first out. |
| | 45.1 10.10 10.10 10.00 1 |
| | In other word. |
| | |
| | - A stack is a linear data structure. |
| | that follows the LIFO Principle |
| | Last in First out. |
| | The last element added is the first |
| | one to be removed. |
| - | |
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| * | Stack Operations. (Basic) | P. No. : | |
| | | 701 | |
| | Push: Insert an elen | nent | |
| | Pop:- Remove the top element Display: Show all elements | | |
| | of the stack. | | |
| | | | |
| | | | |
| | Push | | |
| | 70P | | |
| | 70 6 | 1.562 4 | |
| | 500 | WD 5. 2 | |
| | 50 4 | | |
| Tv | 0.0 | | |
| 71 | No sard 30 5 | | |
| | Linked List. | | |
| | . Tilbakell . ym . 7. | | |
| | (Transpa) of the wat | | |
| * | Application of Stack CTechnic | cul). | |
| | Function Cull Handling | (g) 1989 | |
| | P Ex | | |
| | (void main () (xyzc) | - | |
| | (1) → apc c); (3) = | | |
| | 3 = 3 | x 45 3 | |
| | Scibc () | , abc. 2 | |
| | (5) \\ \frac{1}{5} \\ | main. 1 | |
| | 1 1 4 - | | |

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| | | close East open But First Clos | | |
| | | | | |
| | | | | |
| | * | Stack Implementation. | | 4-3 |
| | 4, | Stack can be implemented in | two | o ways: |
| | | · Using Array | | J. |
| <u> </u> | | · Using Linked List | £ | |
| _ | | | | |
| | | Stack Clinear Ds) | 25714 | 111 |
| T - | | 5 July 1930 | 10% | |
| | | 1811 630 | , Trj. 1 | |
| | | Array Linked List. | | |
| | | (Static) (Dynamic). | | - |
| - | | | 0 | |
| 4_ | | <u>(formalisti dinite to anitorio</u> | 4/4 | K |
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| | | Control Devent | | 5. |
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| | *'. | | -1-1 | |
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| | Date: P. No.: |
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| _ | Implementation Stack using Array. |
| | |
| | #include 4stdio.h> |
| | #define MaxSize 10 |
| | int Stack[Maxsize], Top=-1; |
| | Hoid int main () |
| | 1 1nt choice; |
| | |
| | Printf(" Stack"); |
| | printf ("In 1. Push In 2. Pop In |
| | 3. Display \n 4. Exit"); |
| | printf("In"); |
| | |
| | printf("In Enter Choice:"); |
| | scanf ("1.1", & choîce); |
| | switch (Choice) |
| | ξ |
| | (ase 1: Push (); broeak; |
| | Case 2: Popc); break; |
| | (use 2: Pop(); break; |
| | default: |
| | printf ("In Invulid Inpu"), |
| | brech; |
| | 3 |
| 1 | while (choice = 4); |
| | \$ 0 + 117 \(\tau \) \(\tau \) |
| | return 0; |
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| | and the state of t |
| | Push O |
| | int n: [2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/ |
| | |
| | if (Top == MaxSize-I) |
| | points ("Stack is overflow"); |
| | λ , |
| | else mainer tal histo |
| | |
| | printf("In Enter Element:"); |
| | Scanf ("1.d"; 8n); |
| | 80 - 1. Page 1 - Page 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |
| | - 10p ++; 70p ++; 70p |
| | 2 |
| | Stuck [Top] = n; |
| - / | - 5 13 13 13 1 13 1 1 1 1 1 1 1 1 1 1 1 1 |
| | 30000000000000000000000000000000000000 |
| | |
| | Void Pop(O) in (1) do sing |
| r | A C C T T T T T T T T T T T T T T T T T |
| | 2 d 2 2 4 o 1 f (1 To p = = - 1) 4 2 (1) |
| | pointf ("Stuck is Underflow"); |
| | 2 1 |
| | Rimarchelse Aireine |
| alta , | S CONTRACTOR ST |
| | TOP; |
| Y a F | } : (- - - - - - - - - - |
| | 3. |
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| 30% of | and the state of t |

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|--|--------|---------------|
| Void Display () | | |
| \$ Propried Co | | |
| int i: | ~ | |
| if(TOP == -1); | | |
| <u> </u> | - | |
| Printf (" Stuck is Underf) | i("ωο, | |
| 3 | | |
| <u>e13e</u> | - | |
| \{\begin{align*} \text{\left} & \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \ | | |
| for (i=Top; i>=0; i=-) | - | |
| \frac{\frac{1}{2}}{2} | | |
| printf ("%d/n", Stuck [i | 1); | |
| 3 | | |
| 3 | | |
| = 0.114 0.14 | - | |
| => output. | | |
| Stack | | |
| 1. Push | | |
| 2. POP | | |
| 3. Display | | و |
| 4. Exit | | 8 |
| | | 7 |
| Enter Choice: I | | 6 |
| Enter Element: 10. | | 5 |
| | | 4 |
| Stack | | 3 |
| 1. Push | | 2 |
| 2. Pop | | 1 |
| 3. Display Push = | > 10 | 0 |
| 4. Exit | Stacl | ۲, |
| | | |

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| | 100 S | 4,1910 | |
| | Enter choice: 1. | ĵ. | |
| | Enter Element: 20 | | 9 |
| | Stack | , | 8 |
| | I. Push | 4. | 7 |
| <u> </u> | 2. Pop | | 6 |
| | 3. Display 4. Exit | - | 5 |
| | 4. EX14 | - | 4 |
| | z in chaice: 9 | | 3 |
| | Enter Choice: 2 | → 20\ | 1 |
| | Stack | 10 | 0 |
| | 1. Push | | |
| | 2.107 | , | OP |
| | 3. Display | Ţ, | Element |
| | 4. Exit | - | |
| | | 1-76,100 | |
| | CITIOI CHOICE. | | |
| | 10 | | |
| | Stack(9018 | 1 | |
| | 7. Push della | | |
| | 2. Pop 3. Display 4. Exit. | | |
| 1 | 3. Display | | |
| | 4. Exit. | | |
| The second | | | |
| | Enter Choice: 40,010167 1990 | 8.1 | |
| | or, throught coin | | |
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