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std::vector
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1. Dynamic array in contiguous memory – creation

- 2. Iterators const, non-const random-access and reverse iterator
- 3. Members front, back, begin, end, rbegin, rend, c(r)begin, c(r)end [], at
- 4. Size and capacity
 - · Size number of elements currently used
 - · Capacity max possible element storage
 - Empty?

MAX_SIZE - ???

- 5. Capacity changing
 - Reserve increase capacity .. if lesser capacity than current then no effect
 - shrink_to_fit () make capacity = size
- 6. Vector size related
 - resize(#, value) if #>size insert at end with value value or val init.. if #<size destroy elements at end? making size = n
 - erase(it) or erase(itr1, itr2) and reduce size ---> capacity may not change
 - clear() make size 0 ---> capacity may not change
 - Pop_front, pop_back
 - assign(#, value) or assign(itr1, itr2) where itr1, itr2 is from different container
 - Insert(itr, #, value) or insert(itr, itr1, itr2), push_back -> copies or moves existing objects into the container.
 - emplace(itr, constructor args), emplace_back ---> inplace construction of vector elements
- 7. =, [] operator works
- 8. F
- I
- 9. F
- 10. F
- 11. F
- 12. F
- 13. F
- 14. F
- 1 I
- 15. F
- 16. D

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17. F
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18. F

19. F I

20. F

21. F

22. F I

23. F

24. F

25. F

I 26. F

27. D

28. F

29. F

30. F

31. F

32. F

33. F

34. F

35. F

36. F

37. F

38. D

39. F

40. F

41. F I

42. F

43. F

44. F

45. F I 46. F I 47. F