

What is the path starting from 0 in programming to get very good at competitive programming?

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Gold Medalist, IEEExtreme 13.0, India · Updated 1y

X

Different people might have a different perception of starting from 0 to get very good at competitive programming. I respect all their opinions. Today, I would be sharing my point of view. You might pick-up the points that you find helpful.

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- **Study the style guide before starting to write the code.**

It ensures excellent and clean coding practice. Always keep it along with you while writing the code, or memorize it. If you skip this step, later on, you will learn it the hard way. Pick any one of the guides and stick with it.

- C++ Style Guide: [by Google](#) or [The C++ Core Guidelines](#)

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◦ or you can choose your own, with which you are comfortable.

- **Install Visual Studio Code.** It is completely free and one of the best IDEs that I have come across. Most high rated programmers code in this IDE. It has lots of custom features, specifically carved for programmers.

[Refer to online resources for its installation and usage guidelines.](#)

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```

colorRegistry.ts — vscode
129 delete this.colorsById[id];
130 delete this.colorsBySchemaProperties[id];
131 const index = this.colorReferenceSchema.enum.indexOf(id);
132 if (index >= 0) {
133   this._onDidChangeSchema (property) ColorRegistry._on_
134   this._onDidChangeSchema (property) ColorRegistry._on_
135   this._onDidChangeSchema (property) ColorRegistry._on_
136   this._onDidChangeSchema (property) ColorRegistry._on_
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138   this._onDidChangeSchema (property) ColorRegistry._on_
139   this._onDidChangeSchema (property) ColorRegistry._on_
140   this._onDidChangeSchema (property) ColorRegistry._on_
141 }
142
143 public getColorSchema() {
144   return this._colorReferenceSchema;
145 }
146 public registerColorCallback(callback: (color: Color) => void) {
147   this._colorReferenceSchema.registerColorCallback(callback);
148 }
149 public deregisterColorCallback(callback: (color: Color) => void) {
150   this._colorReferenceSchema.deregisterColorCallback(callback);
151 }
152
153 public registerColor(color: Color, theme: string) {
154   const colorValue = color.Desc.defaults[theme.type];
155   this._colorReferenceSchema.registerColor(color, theme);
156   return resolveColorValue(colorValue, theme);
157 }
158
159 public resolveColorDefaultColor(theme: string): Color {
160   const colorValue = this._colorReferenceSchema.resolveColorDefaultColor(theme);
161   return resolveColorValue(colorValue, theme);
162 }
163
164 public resolveColorValue(colorValue: string, theme: string): Color {
165   const color = this._colorReferenceSchema.resolveColorValue(colorValue, theme);
166   return resolveColorValue(color, theme);
167 }
168
169 public resolveColorValueForTheme(
170   colorValue: string,
171   theme: string,
172   type: string
173 ): Color {
174   const color = this._colorReferenceSchema.resolveColorValueForTheme(
175     colorValue,
176     theme,
177     type
178   );
179   return resolveColorValue(color, theme);
180 }
181
182 public resolveColorValueForType(
183   colorValue: string,
184   type: string
185 ): Color {
186   const color = this._colorReferenceSchema.resolveColorValueForType(
187     colorValue,
188     type
189   );
190   return resolveColorValue(color, type);
191 }
192
193 public resolveColorValueForThemeAndType(
194   colorValue: string,
195   theme: string,
196   type: string
197 ): Color {
198   const color = this._colorReferenceSchema.resolveColorValueForThemeAndType(
199     colorValue,
200     theme,
201     type
202   );
203   return resolveColorValue(color, theme);
204 }
205
206 public resolveColorValueForTypeAndTheme(
207   colorValue: string,
208   type: string,
209   theme: string
210 ): Color {
211   const color = this._colorReferenceSchema.resolveColorValueForTypeAndTheme(
212     colorValue,
213     type,
214     theme
215   );
216   return resolveColorValue(color, theme);
217 }
218
219 public resolveColorValueForThemeAndTypeAndLanguage(
220   colorValue: string,
221   theme: string,
222   type: string,
223   language: string
224 ): Color {
225   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguage(
226     colorValue,
227     theme,
228     type,
229     language
230   );
231   return resolveColorValue(color, theme);
232 }
233
234 public resolveColorValueForTypeAndThemeAndLanguage(
235   colorValue: string,
236   type: string,
237   theme: string,
238   language: string
239 ): Color {
240   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguage(
241     colorValue,
242     type,
243     theme,
244     language
245   );
246   return resolveColorValue(color, theme);
247 }
248
249 public resolveColorValueForThemeAndTypeAndLanguageAndFont(
250   colorValue: string,
251   theme: string,
252   type: string,
253   language: string,
254   font: string
255 ): Color {
256   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFont(
257     colorValue,
258     theme,
259     type,
260     language,
261     font
262   );
263   return resolveColorValue(color, theme);
264 }
265
266 public resolveColorValueForTypeAndThemeAndLanguageAndFont(
267   colorValue: string,
268   type: string,
269   theme: string,
270   language: string,
271   font: string
272 ): Color {
273   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFont(
274     colorValue,
275     type,
276     theme,
277     language,
278     font
279   );
280   return resolveColorValue(color, theme);
281 }
282
283 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSize(
284   colorValue: string,
285   theme: string,
286   type: string,
287   language: string,
288   font: string,
289   size: string
290 ): Color {
291   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSize(
292     colorValue,
293     theme,
294     type,
295     language,
296     font,
297     size
298   );
299   return resolveColorValue(color, theme);
300 }
301
302 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSize(
303   colorValue: string,
304   type: string,
305   theme: string,
306   language: string,
307   font: string,
308   size: string
309 ): Color {
310   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSize(
311     colorValue,
312     type,
313     theme,
314     language,
315     font,
316     size
317   );
318   return resolveColorValue(color, theme);
319 }
320
321 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeight(
322   colorValue: string,
323   theme: string,
324   type: string,
325   language: string,
326   font: string,
327   weight: string
328 ): Color {
329   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeight(
330     colorValue,
331     theme,
332     type,
333     language,
334     font,
335     weight
336   );
337   return resolveColorValue(color, theme);
338 }
339
340 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeight(
341   colorValue: string,
342   type: string,
343   theme: string,
344   language: string,
345   font: string,
346   weight: string
347 ): Color {
348   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeight(
349     colorValue,
350     type,
351     theme,
352     language,
353     font,
354     weight
355   );
356   return resolveColorValue(color, theme);
357 }
358
359 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyle(
360   colorValue: string,
361   theme: string,
362   type: string,
363   language: string,
364   font: string,
365   weight: string,
366   style: string
367 ): Color {
368   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyle(
369     colorValue,
370     theme,
371     type,
372     language,
373     font,
374     weight,
375     style
376   );
377   return resolveColorValue(color, theme);
378 }
379
380 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyle(
381   colorValue: string,
382   type: string,
383   theme: string,
384   language: string,
385   font: string,
386   weight: string,
387   style: string
388 ): Color {
389   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyle(
390     colorValue,
391     type,
392     theme,
393     language,
394     font,
395     weight,
396     style
397   );
398   return resolveColorValue(color, theme);
399 }
400
401 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeight(
402   colorValue: string,
403   theme: string,
404   type: string,
405   language: string,
406   font: string,
407   weight: string,
408   style: string,
409   lineHeight: string
410 ): Color {
411   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeight(
412     colorValue,
413     theme,
414     type,
415     language,
416     font,
417     weight,
418     style,
419     lineHeight
420   );
421   return resolveColorValue(color, theme);
422 }
423
424 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeight(
425   colorValue: string,
426   type: string,
427   theme: string,
428   language: string,
429   font: string,
430   weight: string,
431   style: string,
432   lineHeight: string
433 ): Color {
434   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeight(
435     colorValue,
436     type,
437     theme,
438     language,
439     font,
440     weight,
441     style,
442     lineHeight
443   );
444   return resolveColorValue(color, theme);
445 }
446
447 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSize(
448   colorValue: string,
449   theme: string,
450   type: string,
451   language: string,
452   font: string,
453   weight: string,
454   style: string,
455   lineHeight: string,
456   fontSize: string
457 ): Color {
458   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSize(
459     colorValue,
460     theme,
461     type,
462     language,
463     font,
464     weight,
465     style,
466     lineHeight,
467     fontSize
468   );
469   return resolveColorValue(color, theme);
470 }
471
472 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSize(
473   colorValue: string,
474   type: string,
475   theme: string,
476   language: string,
477   font: string,
478   weight: string,
479   style: string,
480   lineHeight: string,
481   fontSize: string
482 ): Color {
483   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSize(
484     colorValue,
485     type,
486     theme,
487     language,
488     font,
489     weight,
490     style,
491     lineHeight,
492     fontSize
493   );
494   return resolveColorValue(color, theme);
495 }
496
497 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeight(
498   colorValue: string,
499   theme: string,
500   type: string,
501   language: string,
502   font: string,
503   weight: string,
504   style: string,
505   lineHeight: string,
506   fontWeight: string
507 ): Color {
508   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeight(
509     colorValue,
510     theme,
511     type,
512     language,
513     font,
514     weight,
515     style,
516     lineHeight,
517     fontWeight
518   );
519   return resolveColorValue(color, theme);
520 }
521
522 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeight(
523   colorValue: string,
524   type: string,
525   theme: string,
526   language: string,
527   font: string,
528   weight: string,
529   style: string,
530   lineHeight: string,
531   fontWeight: string
532 ): Color {
533   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeight(
534     colorValue,
535     type,
536     theme,
537     language,
538     font,
539     weight,
540     style,
541     lineHeight,
542     fontWeight
543   );
544   return resolveColorValue(color, theme);
545 }
546
547 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyle(
548   colorValue: string,
549   theme: string,
550   type: string,
551   language: string,
552   font: string,
553   weight: string,
554   style: string,
555   lineHeight: string,
556   fontWeight: string,
557   fontStyle: string
558 ): Color {
559   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyle(
560     colorValue,
561     theme,
562     type,
563     language,
564     font,
565     weight,
566     style,
567     lineHeight,
568     fontWeight,
569     fontStyle
570   );
571   return resolveColorValue(color, theme);
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573
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575   colorValue: string,
576   type: string,
577   theme: string,
578   language: string,
579   font: string,
580   weight: string,
581   style: string,
582   lineHeight: string,
583   fontWeight: string,
584   fontStyle: string
585 ): Color {
586   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyle(
587     colorValue,
588     type,
589     theme,
590     language,
591     font,
592     weight,
593     style,
594     lineHeight,
595     fontWeight,
596     fontStyle
597   );
598   return resolveColorValue(color, theme);
599 }
600
601 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyle(
602   colorValue: string,
603   theme: string,
604   type: string,
605   language: string,
606   font: string,
607   weight: string,
608   style: string,
609   lineHeight: string,
610   fontWeight: string,
611   fontStyle: string,
612   fontStyle: string
613 ): Color {
614   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyle(
615     colorValue,
616     theme,
617     type,
618     language,
619     font,
620     weight,
621     style,
622     lineHeight,
623     fontWeight,
624     fontStyle,
625     fontStyle
626   );
627   return resolveColorValue(color, theme);
628 }
629
630 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyle(
631   colorValue: string,
632   type: string,
633   theme: string,
634   language: string,
635   font: string,
636   weight: string,
637   style: string,
638   lineHeight: string,
639   fontWeight: string,
640   fontStyle: string,
641   fontStyle: string,
642   fontStyle: string
643 ): Color {
644   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyle(
645     colorValue,
646     type,
647     theme,
648     language,
649     font,
650     weight,
651     style,
652     lineHeight,
653     fontWeight,
654     fontStyle,
655     fontStyle,
656     fontStyle
657   );
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659 }
660
661 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
662   colorValue: string,
663   theme: string,
664   type: string,
665   language: string,
666   font: string,
667   weight: string,
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669   lineHeight: string,
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672   fontStyle: string,
673   fontStyle: string,
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675 ): Color {
676   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
677     colorValue,
678     theme,
679     type,
680     language,
681     font,
682     weight,
683     style,
684     lineHeight,
685     fontWeight,
686     fontStyle,
687     fontStyle,
688     fontStyle,
689     fontStyle
690   );
691   return resolveColorValue(color, theme);
692 }
693
694 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
695   colorValue: string,
696   type: string,
697   theme: string,
698   language: string,
699   font: string,
700   weight: string,
701   style: string,
702   lineHeight: string,
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709 ): Color {
710   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
711     colorValue,
712     type,
713     theme,
714     language,
715     font,
716     weight,
717     style,
718     lineHeight,
719     fontWeight,
720     fontStyle,
721     fontStyle,
722     fontStyle,
723     fontStyle
724   );
725   return resolveColorValue(color, theme);
726 }
727
728 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
729   colorValue: string,
730   theme: string,
731   type: string,
732   language: string,
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734   weight: string,
735   style: string,
736   lineHeight: string,
737   fontWeight: string,
738   fontStyle: string,
739   fontStyle: string,
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744 ): Color {
745   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
746     colorValue,
747     theme,
748     type,
749     language,
750     font,
751     weight,
752     style,
753     lineHeight,
754     fontWeight,
755     fontStyle,
756     fontStyle,
757     fontStyle,
758     fontStyle,
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760   );
761   return resolveColorValue(color, theme);
762 }
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764 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
765   colorValue: string,
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770   weight: string,
771   style: string,
772   lineHeight: string,
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782   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
783     colorValue,
784     type,
785     theme,
786     language,
787     font,
788     weight,
789     style,
790     lineHeight,
791     fontWeight,
792     fontStyle,
793     fontStyle,
794     fontStyle,
795     fontStyle,
796     fontStyle
797   );
798   return resolveColorValue(color, theme);
799 }
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801 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
802   colorValue: string,
803   theme: string,
804   type: string,
805   language: string,
806   font: string,
807   weight: string,
808   style: string,
809   lineHeight: string,
810   fontWeight: string,
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821     colorValue,
822     theme,
823     type,
824     language,
825     font,
826     weight,
827     style,
828     lineHeight,
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831     fontStyle,
832     fontStyle,
833     fontStyle,
834     fontStyle
835   );
836   return resolveColorValue(color, theme);
837 }
838
839 public resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
840   colorValue: string,
841   type: string,
842   theme: string,
843   language: string,
844   font: string,
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858 ): Color {
859   const color = this._colorReferenceSchema.resolveColorValueForTypeAndThemeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
860     colorValue,
861     type,
862     theme,
863     language,
864     font,
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866     style,
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872     fontStyle,
873     fontStyle
874   );
875   return resolveColorValue(color, theme);
876 }
877
878 public resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
879   colorValue: string,
880   theme: string,
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883   font: string,
884   weight: string,
885   style: string,
886   lineHeight: string,
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898 ): Color {
899   const color = this._colorReferenceSchema.resolveColorValueForThemeAndTypeAndLanguageAndFontAndSizeAndWeightAndStyleAndLineHeightAndFontSizeAndFontWeightAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyleAndFontStyle(
900     colorValue,
901     theme,
902     type,
903     language,
904     font,
905     weight,
906     style,
907     lineHeight,
908     fontWeight,
909     fontStyle,
910     fontStyle,
911     fontStyle,
912     fontStyle,
913     fontStyle
914   );
915   return resolveColorValue(color, theme);
916 }
917
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[Overview](#)[Reviews](#)[Support](#)[Related](#)

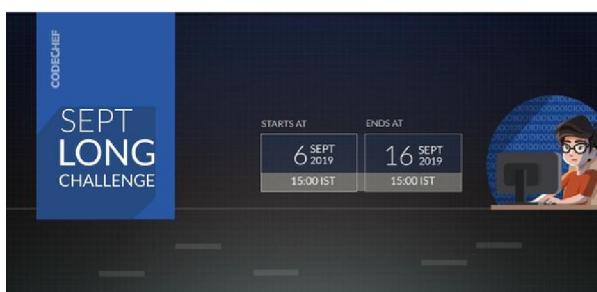
- Learn to **prepare your custom template and snippets**. I recommend storing your custom snippets on G-Drive, as MS-Visual Code does not have a backup and restore feature.

NOTE: As you have done some basic coding, you must be familiar with the syntax of the language of your preference. **I recommend you to make a custom template**, rather than copy-pasting from somewhere.



- Start participating in **Codechef long challenges and unrated contests**.

Please don't jump into rated contents apart from Codechef long; it might hamper your momentum.



- Parallelly, solve questions from any one of the following platforms:

- CodeChef Beginner

Beginner	Easy	Medium	Hard	Challenge	Peer
Name	Code	Successful Submission	Accuracy		
ATM	HS08TEST	90688	19.96		
Enormous Input Test	INTEST	71138	44.57		
Add Two Numbers	FLOW001	41471	53.91		
Small factorials	FCTRL2	36345	18.52		
Sum of Digits	FLOW006	32850	49.97		
Turbo Sort	TSORT	32524	25.43		
Number Mirror	START01	31404	69.47		
Find Remainder	FLOW002	30672	62.42		
The Lead Game	TLG	26986	21.41		
First and Last Digit	FLOW004	24704	57.54		
Lucky Four	LUCKFOUR	24495	63.42		
Packaging Cupcakes	MUFFINS3	24354	51.85		

- Codeforces Ladder

A² Online Judge · by Ahmed Aly · Sponsored by Codecademy & ACPC

Contents | [HOME](#) | Problems | Status | Categories | Groups | More | About

Join a ladder from the following ladders based on your Codeforces Rating.

Rank	User	Problems Solved	Successful Submissions	Dependence Score
11	GoharHafsa	100	1000	1000
12	gohar_hafsa	100	600	600
13	gohar_hafsa	100	500	500
14	gohar_hafsa	100	400	400
15	gohar_hafsa	100	300	300
16	gohar_hafsa	100	200	200
17	gohar_hafsa	100	1000	1000
18	gohar_hafsa	100	1179	1179
19	gohar_hafsa	100	975	975
20	gohar_hafsa	100	800	800
21	gohar_hafsa	100	7120	7120
22	gohar_hafsa	100	600	600
23	gohar_hafsa	100	500	500
24	gohar_hafsa	100	400	400
25	gohar_hafsa	100	300	300
26	gohar_hafsa	100	200	200
27	gohar_hafsa	100	1000	1000
28	gohar_hafsa	100	478	478
29	gohar_hafsa	100	1000	1000
30	gohar_hafsa	100	300	300

The screenshot shows the Quora homepage with a search bar at the top containing the term "Concurrency". Below the search bar, there are several navigation icons: Home, Quora, Database, Wall, and Community. The main content area displays a search result for "Concurrency" with the following details:

- Title:** Concurrency
- Views:** 1.1M views
- Upvotes:** 1.1K upvotes
- Comments:** 1.1K comments
- Created:** 1 year ago

Below the search result, there is a section titled "Your Progress" showing a pie chart of session activity. The chart indicates 100% completion of the "Concurrency" topic. A sidebar on the left lists various programming topics with their acceptance rates:

#	Title	Status	Acceptance
1	Two Sum	Easy	95.9%
2	Add Two Numbers	Easy	92.4%
3	Longest Substring Without Repeating Characters	Easy	29.3%
4	Median of Two Sorted Arrays	Medium	25.0%
5	Longest Palindromic Substring	Medium	25.0%
6	ZigZag Conversion	Medium	34.2%
7	Rearrange Integer	Medium	25.6%
8	Binary N-ary Integer (atoi)	Medium	14.9%
9	Palindrome Number	Medium	40.0%
10	Regular Expression Matching	Medium	35.0%
11	Container With Most Water	Medium	45.0%

On the right side, there is a "Top Hits" section with three categories: Top 100 Liked Questions, Top Amazon Questions, and Top Facebook Questions.

◦ SPOJ

The screenshot shows the homepage of the Sphere online judge. At the top, there's a navigation bar with links for PROBLEMS, STATUS, RANKS, DISCUSS, CONTESTS, and sign in. Below the navigation is a secondary menu with links for Classical, Challenge, Tutorial, Riddle, and Basics. The main content area features a large title "list of classical problems" and a table listing 15 problems. Each row in the table contains the problem name, its difficulty level (e.g., 1, 2, 3), quality score (e.g., 248, 467), user count (e.g., 70108, 10008), acceptance percentage (e.g., 33.3%, 15.3%), and a link to view more details. To the right of the table, there's a sidebar with a "S" logo, a "S" icon, and text about the Sphere Cloud for teams starting at \$10.39 per month. Below the sidebar is a section titled "Most popular tags" with a list of tags and their counts: algorithmic-programming (33), dynamic-programming (26), graph-theory (120), geometry (11), string-processing (10), number-theory (10), binary-search (8), combinatorics (8), backtracking (8), sorting (8), union-find (8), knapsack (8), editorializing (8), gcd (8), string-processing (8), amortized-analysis (8), digit-manipulation (8), big-integer (8), key-value (8), recursive (8), and 2d-matrix (8). A search bar at the bottom right is labeled "Find a tag".

ID	NAME	QUALITY	USERS	ACC %	DIFFICULTY
1	Life, the Universe, and Everything	248	152156	33.3%	1
2	Prime Generator	467	70108	15.3%	1
3	Sudoku Check (Buddy Runny)	5	929	10.7%	4
4	Translating the Expressions	199	38800	43.7%	1
5	The Next Palindrome	379	14086	10.21%	1
6	Simple Arithmetics	112	2374	12.40%	1
7	The Bulet	5	368	24.34%	1
8	Complete the Sequence!	26	2954	33.0%	1
9	Direct Visibility	11	212	16.84%	1
10	Complicated Expressions	9	787	25.0%	1
11	Sum of Digits	140	10008	40.00%	1
12	The Game of Master Mind	21	261	48.23%	1
13	Volition	165	256	26.36%	1
14	Leopardoid	4	766	36.04%	4
15	The Shortest Path	99	878	23.32%	1

GeeksForGeeks Practice

The image shows a 2x5 grid of cards, each featuring a green icon and a label describing a data structure or algorithm. The cards are arranged in two rows. The top row contains five cards: 'Tree' (a tree diagram), 'BST' (a binary search tree diagram), 'Heap' (a heap diagram), 'Hashing' (a hash table diagram), and 'More Data Structures' (a green search icon). The bottom row contains four cards: 'Matrix' (a matrix diagram), 'Graph' (a graph diagram), 'Algorithms' (a general algorithms icon), and 'Greedy Algorithm' (a bar chart icon). A vertical sidebar on the right is labeled 'DATA STRUCTURES' at the top and 'ALGORITHMS' at the bottom.

- **Solve at least 100 of them** before progressing further.
You will get familiar with the **coding environment**, **IDEs**, **discussion forums**, **tags**, **editorials**, etc. Also, you will get a basic idea about **input-output format**, **data types**, **memory issues**, **overflow issues**, **modulus handling**, **time complexity**, **different types of errors (RUNTIME, Compilation, TLE, etc.)** and **best practices in coding**.
Refer to editorials as a last resort. Try solving questions on your own.

The time required: 120 days (at max)

The time required: 120 days (at max)

- Participate in the **ZCO practice contest** and try to solve as many questions as possible.
This contest is for school students, so knowing this, you might get a headstart. There are lots of blogs and tutorials available online for each of these questions.

The screenshot shows the ZOO Practice Contest interface. At the top, there's a navigation bar with 'Home', 'Compete', and 'ZOO Practice Contest'. Below it is a banner for 'ZOO PRACTICE CONTEST 2012-2016 PROBLEMS'. The main area features four circular profile pictures of contestants: Sampriti, Rajat, Malvika, and Srujon. Below their names, it says '2016 INDIAN IOI FINALISTS'. A progress bar at the bottom indicates the contest ends in 133 days, 6 hours, 29 minutes, and 38 seconds. To the right, there are sections for 'Contest Ends In' and 'Contest Ranks', with a button to 'Go to Contest Ranks'. A message at the bottom says 'The information will be updated in 35 seconds'.

- Now, you are all set to participate in rated contests. **Participate in as many contests as possible.** Participating in contests help you solve more questions in less time. **Add this extension** and choose your favorite platforms.

NOTE: Always **Upsolve**

{ } Coder's Calendar

Offered by: nishanth_v

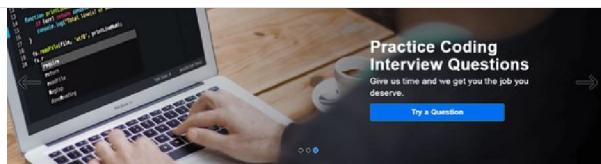
★★★★★ 384 | Developer Tools | 5,505 users

Offers in-app purchases

A screenshot of a Microsoft Store page for the 'Android App extensions' extension. The top navigation bar includes 'Overview', 'Reviews', 'Support', and 'Related'. Below the main title, there's a 'Description' section with a 'Read more' link. The 'Related' section on the right lists several other extensions, each with a preview image, name, and a green checkmark icon indicating they are compatible with the current extension.

- **Register on InterviewBit and complete all levels.** There are around 300 questions in total; solving all of them will make you a master of fundamental algorithms. The best part is, everything is free.

The time required: 6 months (at max)



800+ Offers from Top Tech Companies in Two Months

- Participate and Solve all the questions of the **AtCoder DP Contest**. It will make you a master of Dynamic Programming. The Contest covers every nook and cranny of Dynamic Programming questions. No question of DP can be of the concept out of this contest.

- Complete the **HackerRank Interview Preparation Kit**. It is a collection of 69 questions arranged topic-wise.

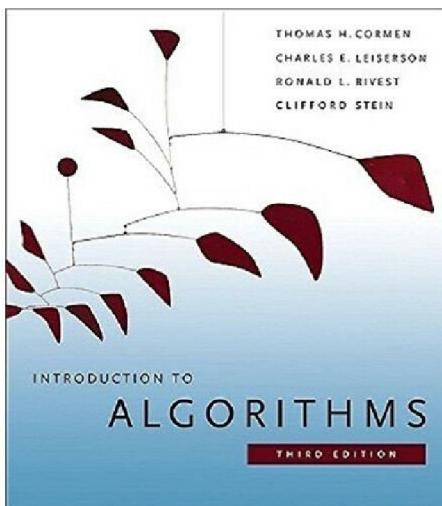
The time required: 3 months (at max)

- Read **CLRS**.

Softcopy, solutions, everything is available online for free. Also, lots of resources related to that are available.

The time required: while(1) (repeat);

This book is the bible of competitive programming. It never gets old. The more you read, the better you get.



KINDLY READ **DESCRIPTION CAREFULLY** BEFORE BUYING!!!

The difference between a good programmer and an awesome programmer:

- A good Programmer: works really hard
- An awesome programmer: **Upsolves**

List of resources:

- Blog by Triveni Mahatha
- Competitive Programmer's Handbook
- Main Page - Competitive Programming Algorithms
- Striver's SDE Sheet
- Quora
 - What is a list of data structures that a competitive programmer must know?
 - How do I learn competitive programming as a beginner?

- How can I become good at competitive programming?
- What is competitive programming?
- What are some good coding competition/practice sites?
- What is the best way to progress through practice problems on CodeChef, SPOJ, TopCoder, etc.?
- Codeforces
 - An awesome list for competitive programming!
 - StopStalk: Tool to maintain your algorithmic progress
 - If you ask me how to improve your algorithm competition skill, I will give you the link of this blog.
 - [Tutorial] A way to Practice Competitive Programming: From Rating 1000 to 2400+
 - Competitive Programmer's Handbook — a new book on competitive programming
 - The 'science' of training in competitive programming
 - YouTube Channels for Competitive Programmers
 - Radewoosh's blog
 - Topic-wise Coding Resources
 - CODEFORCES for BEGINNERS...
 - Competitive Programming Community Discord (5800+ Members): Discussions hub!
- CodeChef
 - Getting Started
 - Data Structures and Algorithms
 - Learn Data Structures and Algorithms
 - Useful Resources For Competitive Programming
 - Competitive programming best resource
 - The CodeChef Wiki
 - Tutorials
 - StopStalk: Tool to maintain your algorithmic progress
- Medium
 - How to prepare for competitive programming?
 - My Competitive Programming Journey To Google
- HackerEarth
 - The Complete Reference to Competitive Programming
 - Programming Tutorials and Practice Problems
 - HackerEarth trending notes
- GeeksForGeeks
 - How to begin with Competitive Programming?
 - Tips and Tricks for Competitive Programmers | Set 1 (For Beginners) - GeeksforGeeks
 - How to become a master in competitive programming?
- Topcoder
 - Competitive Programming Tutorials
- Coding Blocks Blog — Sites and Tools for Competitive Programming
- redgreencode - How do I get better at competitive programming?
- Shahjalal Shohag Blog - The Ultimate Topic List(with Tutorials, Problems, and Templates)
- Guru99 - Competitive Programming for Beginners
- blogspot - Algorithms Live!
- Online Courses
 - edX
 - How to Win Coding Competitions: Secrets of Champions
 - MIT OCW
 - Introduction to Algorithms
 - Design and Analysis of Algorithms
 - Advanced Algorithms
 - CMU 15-451 (Algorithms), Fall 2010
 - USC - Data Structures and Object-Oriented Design
 - Stanford - CS 97SI: Introduction to Programming Contests
 - Harvard - CS 224: Advanced Algorithms
- List of competitive programming sites
 - Codechef
 - Codeforces
 - Hackerrank
 - GeeksForGeeks
 - InterviewBit
 - PrepBytes
 - Hackerearth
 - AtCoder
 - Topcoder

- [UVa Online](#)
- [Project Euler](#)
- [Timus Online Judge](#)
- [A2 Online Judge](#)
- [Google's Coding Competitions Archives](#)
- [ACM ICPC Problem Archives](#)
- [Panda Online Judge](#)
- [Zhejiang University Online Judge \(ZOJ\)](#)
- [Coding Ninjas](#)
- [Codecademy](#)
- [My Code School](#)
- [freeCodeCamp](#)
- [Codility](#)
- [Coderbyte](#)
- [Codecup](#)
- [CodeGround](#)
- [CodeJam](#)
- [Codewars](#)
- [DoSelect for developers](#)
- [GeekyPrep.com](#)
- [Kattis](#)
- [LeetCode](#)
- [CodingBat](#)
- [Programming Hub](#)
- [TechGig](#)
- [Techie Delight](#)
- [The Python Challenge](#)
- [Codingame: Coding Games and Programming Challenges to Code Better](#)
- [HackerBlocks](#)
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- Tools for Programming Contests
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 - [Google Hash Code](#)
 - [CodeChef SnackDown](#)
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 - [Topcoder Open \(TCO\)](#)
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 - [Hewlett Packard \(HP\) Codewars](#)
- Books
 - [CLRS](#)
 - [Competitive Programming 3](#)
 - [Competitive Programmer's Handbook](#)
 - [The Art of Computer Programming](#)

If you made it till here, please feel free to suggest corrections or addition of resources.

180.8K views · View 1,882 upvotes · View 144 shares

Promoted by Interview Kickstart

X

Upvote · 625 31 23

...

How do I prepare for the behavioral round at Amazon?

Amazon's behavioral round will have questions that pertain to one or more leadership principles. While answering these questions, make references to specific principles and associate them with your answers. That way, recruiters will know that you've read and understood these crucial principles and are willing to apply them at your workplace.

- Tell us about a time when you overcame a rather difficult challenge pertaining to a past project.
 - Tell us about a time when you had to halt a project halfway
- [... \(more\)](#)

Your response is private

Is this ad relevant to you?

This helps us show better ads for you.



Absolutely not Definitely yes

You upvoted this

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29



144



competitive programming?

Different people might have a different perception of starting from 0 to get very good at competitive programming. I respect all their opinions. Today, I would be sharing my point of view. You might **pick-up the points that you find helpful**.

Please follow this order sequentially

- **Follow the following topics on Quora:**

- Competitive Programming
- Algorithms
- Computer Programming

- **Subscribe the following YouTube channels:**

- Tushar Roy - Coding Made Simple
- take U forward
- WilliamFiset
- Aditya Verma
- Pepcoding
- Code NCode
- mycodeschool
- Gaurav Sen
- Rachit Jain
- code_report
- Abdul Bari

- **Study the style guide before starting to write the**

[... \(more\)](#)

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23



21



Related How should I get started in competitive programming?

Here's how I did:

1. Learn one programming language really well - preferably C++. Make sure you're super comfortable with all the constructs and can code up any algorithm given the pseudo code.
2. Go to Hackerrank. Easy problems for starters and a good UI. Get a badge or two in C++ and Problem Solving (5 stars in Hackerrank is not too tough to get).
3. Then go to SPOJ. Sort the problems in descending order of "number of people who have solved them". This is important as it will make sure the problem level increases gradually. After 20–30 questions the problems tend to become quite tough. Solve 100.
4. This sh

[... \(more\)](#)

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118



113



How does one build a website from scratch?

Building a website can be fast, cheap, and easy if you know the best way to do it.

You might have heard stories of professionals doing it and think that creating a website is expensive and complicated.

It can be in some cases, but don't worry - there are ways that even a complete newcomer can create a marvelous site.

You only need to follow a few essential steps I'll talk about below.

In no time, you'll have a bright and shiny webpage made all by yourself.

Start with choosing a hosting plan and buying a domain.

Before building a website, you will need to choose a hosting provider and buy a plan.

When... [\(more\)](#)

Aman Goel upvoted this

[Upvote · 11.1K](#)



44



128



in C++ in 2-3 months?

Many people tell you that solving lots of problems and you will become red on Topcoder/Codeforces one day. It is true, and is the only universally approved way in competitive programming community, but it is actually just half of the story. Let me first explain

For each problem, in order to solve it, you must jump over a gap. It can be either a difficult implementation, or some hard-to-see observation, difficult algorithm, etc.



For me, some problems are very easy (e.g. Codeforces div 2 ... [\(more\)](#)

Related questions

[More answers below](#)

[What should I know before starting competitive programming?](#)

[What are the prizes if you win a "competitive coding" competition?](#)

[How do I start competitive programming? What should I learn first, and what shall be my approach to be a good competitive programmer?](#)

[Upvote](#) [Downvote](#)

...

Competitive programming is a challenging field that requires a combination of strong problem-solving skills, algorithmic thinking, and programming expertise. Here are some steps that can help you get started:

1. Learn a programming language: Choose a programming language that you are comfortable with and learn its syntax and basic concepts.
2. Practice coding: Practice coding regularly to improve your programming skills. There are many online platforms, such as HackerRank, Codeforces, and LeetCode, that offer coding challenges and problems to solve.
3. Learn algorithms and data structures: Competitive p

[... \(more\)](#)

[Upvote · 5.4K](#)

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46 [Comments](#) 31

...

Related [What's your story as a competitive programmer?](#)

I started competitive programming in October 2013 with CodeChef's Long Challenge.

It was my third semester of engineering and I was having an easy time with my course curriculum. I didn't have any challenges to overcome and I didn't have anything to study. I spent my time playing a few easy computer games and watching TV Series full of violence.

Two very able seniors of mine Tushar Makkar [[https://...](#) [\(more\)](#)

Promoted by Zeroo

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137 [Comments](#)

...

Which is the best Telegram channel for option trading in the Indian stock market in 2024?

Hi,

I started trading right after finishing my degree in 2020. I found various Telegram channels, each having its unique trading approach. So, I started educating myself, took various courses and learned trading for several years.

if you're just starting out,

You can check **Zeroo** telegram channel

Here's how to sign up :

Zeroo

Zeroo

You can view and join @zeroo right away.

<https://telegram.me/zeroo>

I liked **Zeroo** because of :

1. High accuracy 85% in last 1 year, you can see my PnL
2. They provide limited trades like 3-4 trades a day for FREE
3. Right entry and safe & risk exits on each of the trades.
4. You get enough time to enter the trades.
5. They always supply us

[... \(more\)](#)

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[Downvote](#)

52 [Comments](#) 80

...

If you Actually want start competitive coding then you must have to follow this method.

Step 1

Learn C++ or Java. If you can learn C, you can learn C++ and I recommend java first.

Why? Because C++ and Java both works on object oriented programming also these are not too complex languages.

Again,

Step 2

Get on Hackerrank because it has the best User Interface, combined with relative ease of getting started for the beginners.

Ease in the sense that anyone with zero CP/al
... [\(more\)](#)

Upvote · 557 4 6

Related **What are the benefits of learning competitive programming?**
Doing competitive programming (CP) at the expense of programming in core CS subjects like operating systems, networking, database management systems, computer architecture, compilers, distributed systems, object oriented programming, etc, is a disaster.
When you transition from student to employee, you don't get to solve single-threaded, fancy DS&A problems like in CP. Instead, as a fresher, you may find yourself scrubbing the UI or fixing some low priority bugs in the legacy backend. With limited systems background you are unlikely to make major feature contributions anyway.
Having said that, C... [\(more\)](#)

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Related **Which one is the most basic programming language to learn, and why is that?**

- The most **basic** is **BASIC**. But it's not very useful these days, it's kind of obsolete.
- The most **useful** is **C**, it is very closely related to systems and thus forces you to learn computer systems.
- The most **straightforward** is **PHP**, although most tutorials out there are focused on Web programming requiring you to learn what Web is first!
- The most **complete** is **Python**. It has huge amount of libraries and vast uses. It also has a delightful specification and syntax.
- The most **used yet annoying** is **Javascript**. It's just.... Javascript.
- The most **popular** is **Java**. The relationship between Java and Javascript is like C

[... \(more\)](#)

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Related **What made you good at competitive programming?**
I spent my college summer break at the hostel. I practiced a lot. Used to solve 30–45 problems a day. This included the solved sections of geeksforgeeks, hackerearth, hackerrank and many more. This also included coding from scratch for every solution to each problem. So, the number of programs I coded every day was above 45 for sure. I wasn't able to maintain this number after 12–15 days as I remember, because I already had solved easier ones and there were only a few left in that category. I don't remember how many days were there in that summer break but I spent min 10hr a day (there was no... [\(more\)](#)

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Related **What is a good schedule to follow for becoming better at competitive programming for beginners?**
The three most important things in competitive programming:

1. Learn and know your programming language. (~3 months - all the time)
2. Learn algorithms/data structures and implement. (~9 months - all the time)
3. Practice coding every day. Do contests. (all the time)
4. (Doesn't just apply to competitive programming) **Have fun!** (all the time)

Thus, that'll be how you break up your schedule. The time it takes for each person will differ, depending on if you already know algorithms, if you know programming or not, etc.
The following is a more detailed how:
#1 Learn and know your programming language.
Pick a programm... [\(more\)](#)

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Related **What is your competitive programming journey (in short)?**
I am right now not that pro programmer so mine is not a journey to motivate others ,but i have some one else's journey to share.

ABDULLAH ASLAM.



He is neither from iit nor from nit even below tier-3 level college.

My Competitive Programming Journey To Google.

How it all started:

I've been interested in programming since class XI (I used to be the computer science topper XD), but it was limit to academics until my 2nd year in engineering. On a random day during my 3rd Semester, I received a call from Mehul (my classmate), who wanted to attend a team coding competition (at a college fest) but did not... [\(more\)](#)

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Related [What are the benefits of learning competitive programming?](#)

The benefits of competitive programming are manifold. I am eligible to write this answer because I have been doing competitive programming from past 2 years and it did help me to a great extent.

Coming back to the question, what are the benefits of competitive programming?

1. If you have a good rating/ranks on websites like codeforces/codechef then you have a very high chance of getting an interview call from companies like google, facebook, Amazon, Directi etc. It also depends a lot on your resume though.
2. You get to participate in competitions like ACM-ICPC and google code jam and get to meet very

[... \(more\)](#)

Aman Goel upvoted this

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- Competitive programming problems are usually precisely specified. Real world applications usually are not. The programmer (or someone else) has to make design decisions.
- Competitive programming problems have strict constraints (can only use 512 MB of RAM, must run in under 2 seconds, and so on). Real world applications usually do not. The programmer has to make tradeoffs, often after consulting with a product manager.
- Competitive programming problems almost always have known solutions. Someone else knows the solution, and the question is whether you are smart enough to also find it. In real w

[... \(more\)](#)

1 answer collapsed (Why?)

Related questions

[How much time do I need to be a competitive programmer?](#)

[What is the way to get better at competitive programming in 1 month with some \(little\) previous experience?](#)

[What are the best websites that let you learn and practice coding simultaneously?](#)

[What's your story as a competitive programmer?](#)

[What is the best way to begin my competitive programming experience?](#)

[What are some tips for competitive programming?](#)

ago, also if you have any other advice it would be really helpful.

What is the dark side of competitive programming?

What is a good way to order topics in terms of what to learn first for competitive programming?

How do I get good at competitive programming quickly?

How much time does it take to learn C++ if you already have good knowledge in C?

How has competitive programming helped you get a job?

What are the steps for getting started in competitive programming, which sites should I use first, and what strategy should I follow to become good in competitive programming?

What is the best way to get good at competitive programming?

How much of C++ should I learn for competitive programming?