

SIMBOLOGIA ELÉTRICA	
	equipamento elétrico
	conexão elétrica
	tubo de passagem de cabos
	cabo elétrico
	armário elétrico
	interruptor elétrico
	tomada elétrica
	terra elétrica
	aviso elétrico
	nota elétrica

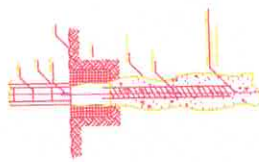


NOME: _____
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 DISCIPLINA: _____
 TURMA: _____
 PROFESSOR: _____
 ALUNO: _____
 RUA: _____
 CIDADE: _____
 ESTADO: _____
 CEP: _____
 CONTATO: _____
 E-MAIL: _____
 ASSINATURA: _____
 RUBRICA: _____
 DATA: ____/____/____

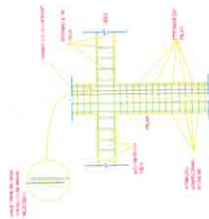
Instituto de Física da UFPA
 Departamento de Física
 Laboratório de Física Experimental

DATA: ____/____/____
 HORÁRIO: ____h ____min
 LOCAL: _____
 TURMA: _____
 PROFESSOR: _____
 ALUNO: _____
 RUA: _____
 CIDADE: _____
 ESTADO: _____
 CEP: _____
 CONTATO: _____
 E-MAIL: _____
 ASSINATURA: _____
 RUBRICA: _____
 DATA: ____/____/____

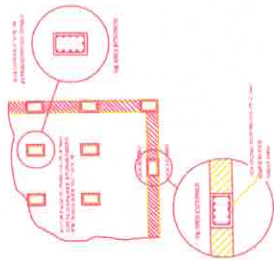
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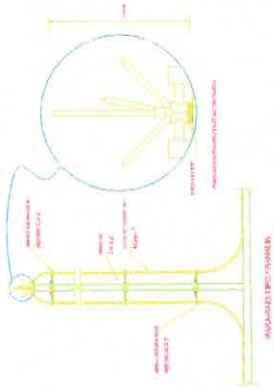
1 DET - GÊNECIO DO ATERRAMENTO NA FUNDADAÇÃO



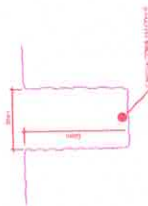
2 DET - DAS TERMOIS DE BOMBA



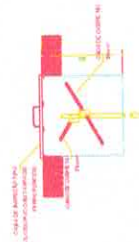
3 DET - DAS INSTALAÇÕES INTERIORES DAS ATIVIDADES EM ÁREAS INTERIORES E EXTERIORES



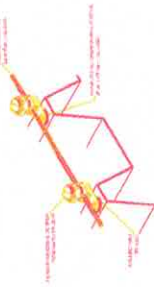
4 DET - DAS INSTALAÇÕES DE TUBULAM



5 DET - DAS PAREDES DA SALA DE ATERRAMENTO

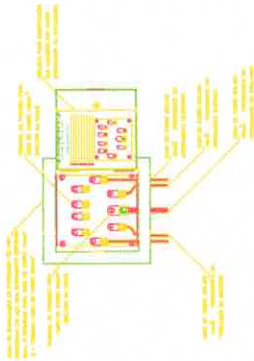


6 DET - CABAIS DE REPERIÇÃO

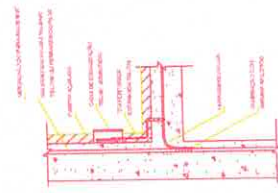


7 DET - HASTE DE ATERRAMENTO

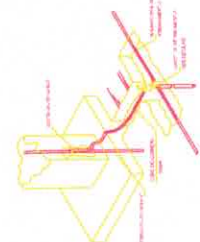
8 DET - INSTALAÇÃO DE CABAIS NA TELHA METÁLICA



9 DET - INSTALAÇÃO DE CABAIS NA TELHA METÁLICA



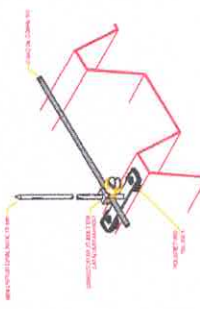
10 DET - INSTALAÇÃO DE CABAIS NA TELHA METÁLICA



11 DET - INSTALAÇÃO DE CABAIS NA TELHA METÁLICA

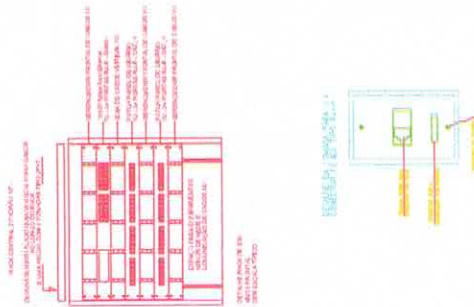


12 DET - INSTALAÇÃO DE CABAIS NA TELHA METÁLICA



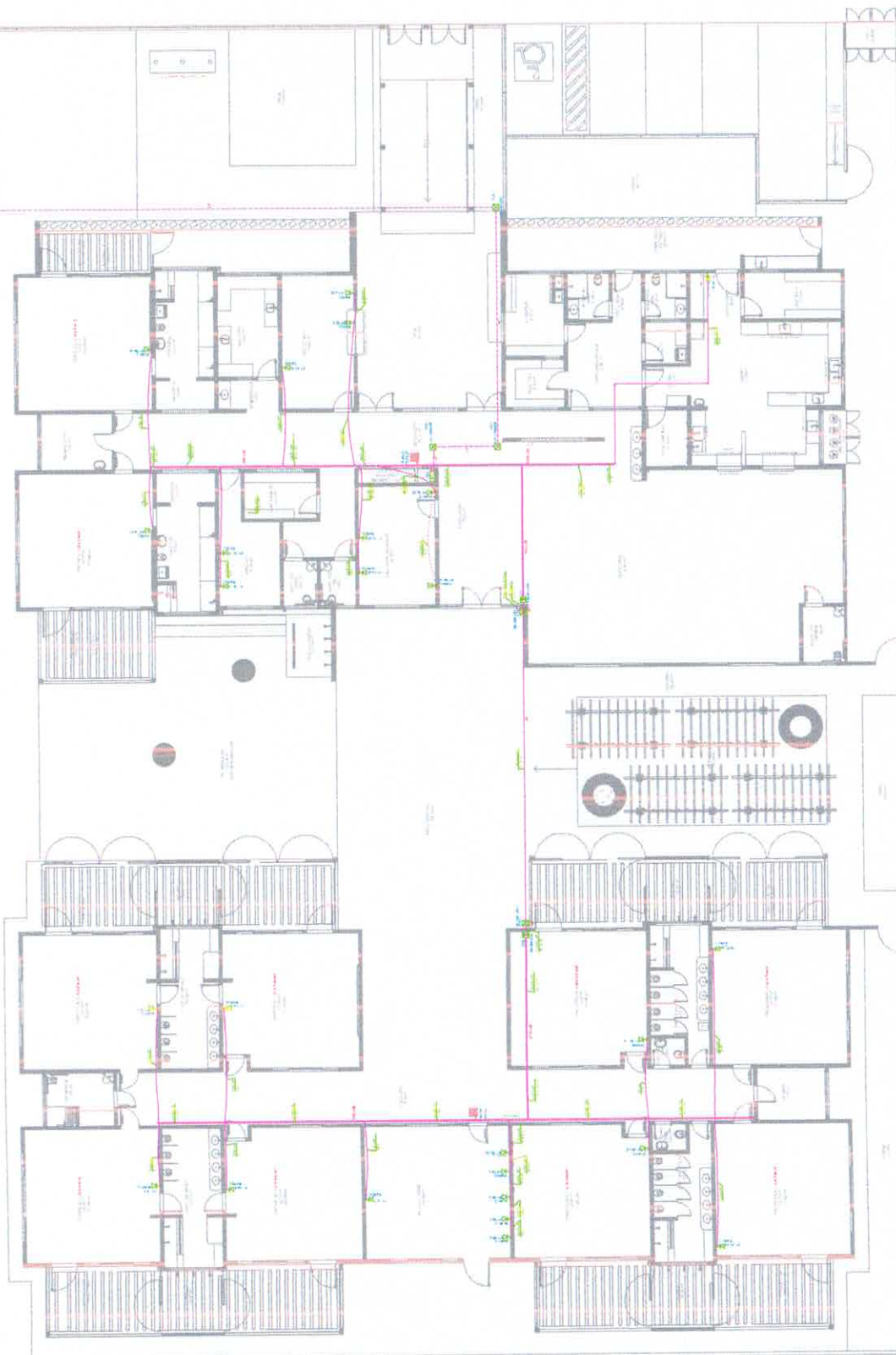
13 DET - INSTALAÇÃO DE CABAIS NA TELHA METÁLICA

1. What is the purpose of the research? 2. What is the research question? 3. What is the research hypothesis? 4. What is the research design? 5. What is the research methodology? 6. What is the research instrument? 7. What is the research data? 8. What is the research conclusion? 9. What is the research limitation? 10. What is the research recommendation?	1. What is the purpose of the research? 2. What is the research question? 3. What is the research hypothesis? 4. What is the research design? 5. What is the research methodology? 6. What is the research instrument? 7. What is the research data? 8. What is the research conclusion? 9. What is the research limitation? 10. What is the research recommendation?
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REFERÊNCIAS:

- MEMORIAL DESCRITIVO E ESPECIFICAÇÕES TÉCNICAS PLANELA DE QUANTITATIVOS.

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RESUMO
EXAMINAR ESTE PROJETO Juntamente com o Projeto Estrutural, para avaliar o melhor desempenho para as tubulações dentro dos limites estabelecidos para o projeto. O estudo foi realizado em um laboratório de testes de tubulações de aço. Os resultados do teste de tubulação de aço foram comparados com os resultados de tubulação de aço e de PVC. Os resultados de tubulação de aço e de PVC mostraram que o desempenho de tubulação de aço é melhor do que o de PVC. Os resultados de tubulação de PVC mostraram que o desempenho de tubulação de PVC é melhor do que o de aço.



GOVERNO DO
PARÁ

PROJETO DE INSTALAÇÕES
QUÍMICAS PARA TODOS OS NÍVEIS

PLANTA DE CLAMATUBOÇÃO

Category:

SIMBOLOGIA ELÉTRICA

	UNIDADE ELÉTRICA, ACRÉSCIMO NO QUANTO ELÉTRICO
	UNIDADE CONDENSADORA SPLIT, ALIMENTAÇÃO ELÉTRICA 3P+N
	TUBULAÇÃO PARASERENA
	ELETRODUTO SOBRE LAJE
	ELETRICIDADE METÁLICA PARA CABOS ELÉTRICOS
	QUADRO DE DISTRIBUIÇÃO (QD) - 1M x 50cm
	PONTO ELÉTRICO PARA INSTALAÇÃO DA UNIDADE CONDENSADORA
	CABO TUBO ELÉTRICO, FASE E TUBO RESPECTIVAMENTE
	INDICAÇÃO DA SITUAÇÃO DO CONDUTOR FASE - 44 (mm²)
	INDICAÇÃO DO NÚMERO DO CIRCUITO - 1

LISTA GERAL DE SPLITS

ITEM	QTD	DESCRIÇÃO
01	02	UNIDADE EVAPORADORA/CONDENSADORA SPLIT 4x 8.500 BTU/h
02	01	UNIDADE EVAPORADORA/CONDENSADORA SPLIT 4x 13.500 BTU/h
03	01	UNIDADE EVAPORADORA/CONDENSADORA SPLIT 4x 21.500 BTU/h
04	11	UNIDADE EVAPORADORA/CONDENSADORA SPLIT 4x 31.500 BTU/h

SIMBOLOGIA REDE DE DRENO

	CANALIZAÇÃO DE ÁGUA COM GRELHA, FRETAMENTO P/REDE DE ÁGUA PLUVIAL
	REDE DE DRENAGEM DE ÁGUA PLUVIAL (p.p. Projeto de Água Pluvial)
	PONTO DE DRENO
	TUBULAÇÃO DA ÁGUA DO DRENO

LISTA DE MATERIAIS DRENO

ITEM	QTD	DESCRIÇÃO
01	14,37m	TUBO DE PVC SOLDAVEL DN 20 MM
02	31	JOELHO DE PVC DE 45° SOLDAVEL DN 20 MM
03	30	JOELHO DE PVC DE 90° SOLDAVEL DN 20 MM
04	09	TE DE PVC SOLDAVEL DN 20 MM
05	09	LUNA DE PVC DE RESINA SOLDAVEL DN 4 DEFINIR PARA 20 MM
06	09	LUNA DE PVC SOLDAVEL DN 20 MM

NOTAS:

- EXISTIRÁ ESTE PROJETO PARALELO COM O PROJETO ESTRUTURAL.
- SERÁ EM CONDIÇÃO DE PROJETO PARA AS TUBULAÇÕES DENTRO DAS LAJES ESTABELECIDAS PELA NBR 8113/2014.
- OS ELETRODUTOS QUE SEDEM ATÉ O QUADRO DE ALIMENTAÇÃO GERAL DEVERÃO SER EM PVC RÍGIDO RIGIDOL.

REVISÕES:

- MODIFICAÇÃO E CORREÇÕES TÉCNICAS
- PLANILHA DE QUANTIDADE

Secretaria de Educação



PROJETO DE INSTALAÇÕES ELÉTRICAS

PLANTA DE ELABORAÇÃO

02/02

PLANTA BAIXA - IMPLANTAÇÃO ELÉTRICA

Canada de Cargos (Cargill)

Condado	Descrição	Extensão (N)	Pop. total	P-1 (N)	P-2 (N)	P-3 (N)	P-4 (N)	P-5 (N)	P-6 (N)	P-7 (N)	P-8 (N)	P-9 (N)	P-10 (N)	P-11 (N)	P-12 (N)	P-13 (N)	P-14 (N)	P-15 (N)	P-16 (N)	P-17 (N)	P-18 (N)	P-19 (N)	P-20 (N)	P-21 (N)	P-22 (N)	P-23 (N)	P-24 (N)	P-25 (N)	P-26 (N)	P-27 (N)	P-28 (N)	P-29 (N)	P-30 (N)	P-31 (N)	P-32 (N)	P-33 (N)	P-34 (N)	P-35 (N)	P-36 (N)	P-37 (N)	P-38 (N)	P-39 (N)	P-40 (N)	P-41 (N)	P-42 (N)	P-43 (N)	P-44 (N)	P-45 (N)	P-46 (N)	P-47 (N)	P-48 (N)	P-49 (N)	P-50 (N)	P-51 (N)	P-52 (N)	P-53 (N)	P-54 (N)	P-55 (N)	P-56 (N)	P-57 (N)	P-58 (N)	P-59 (N)	P-60 (N)	P-61 (N)	P-62 (N)	P-63 (N)	P-64 (N)	P-65 (N)	P-66 (N)	P-67 (N)	P-68 (N)	P-69 (N)	P-70 (N)	P-71 (N)	P-72 (N)	P-73 (N)	P-74 (N)	P-75 (N)	P-76 (N)	P-77 (N)	P-78 (N)	P-79 (N)	P-80 (N)	P-81 (N)	P-82 (N)	P-83 (N)	P-84 (N)	P-85 (N)	P-86 (N)	P-87 (N)	P-88 (N)	P-89 (N)	P-90 (N)	P-91 (N)	P-92 (N)	P-93 (N)	P-94 (N)	P-95 (N)	P-96 (N)	P-97 (N)	P-98 (N)	P-99 (N)	P-100 (N)	P-101 (N)	P-102 (N)	P-103 (N)	P-104 (N)	P-105 (N)	P-106 (N)	P-107 (N)	P-108 (N)	P-109 (N)	P-110 (N)	P-111 (N)	P-112 (N)	P-113 (N)	P-114 (N)	P-115 (N)	P-116 (N)	P-117 (N)	P-118 (N)	P-119 (N)	P-120 (N)	P-121 (N)	P-122 (N)	P-123 (N)	P-124 (N)	P-125 (N)	P-126 (N)	P-127 (N)	P-128 (N)	P-129 (N)	P-130 (N)	P-131 (N)	P-132 (N)	P-133 (N)	P-134 (N)	P-135 (N)	P-136 (N)	P-137 (N)	P-138 (N)	P-139 (N)	P-140 (N)	P-141 (N)	P-142 (N)	P-143 (N)	P-144 (N)	P-145 (N)	P-146 (N)	P-147 (N)	P-148 (N)	P-149 (N)	P-150 (N)	P-151 (N)	P-152 (N)	P-153 (N)	P-154 (N)	P-155 (N)	P-156 (N)	P-157 (N)	P-158 (N)	P-159 (N)	P-160 (N)	P-161 (N)	P-162 (N)	P-163 (N)	P-164 (N)	P-165 (N)	P-166 (N)	P-167 (N)	P-168 (N)	P-169 (N)	P-170 (N)	P-171 (N)	P-172 (N)	P-173 (N)	P-174 (N)	P-175 (N)	P-176 (N)	P-177 (N)	P-178 (N)	P-179 (N)	P-180 (N)	P-181 (N)	P-182 (N)	P-183 (N)	P-184 (N)	P-185 (N)	P-186 (N)	P-187 (N)	P-188 (N)	P-189 (N)	P-190 (N)	P-191 (N)	P-192 (N)	P-193 (N)	P-194 (N)	P-195 (N)	P-196 (N)	P-197 (N)	P-198 (N)	P-199 (N)	P-200 (N)	P-201 (N)	P-202 (N)	P-203 (N)	P-204 (N)	P-205 (N)	P-206 (N)	P-207 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(N)	P-408 (N)	P-409 (N)	P-410 (N)	P-411 (N)	P-412 (N)	P-413 (N)	P-414 (N)	P-415 (N)	P-416 (N)	P-417 (N)	P-418 (N)	P-419 (N)	P-420 (N)	P-421 (N)	P-422 (N)	P-423 (N)	P-424 (N)	P-425 (N)	P-426 (N)	P-427 (N)	P-428 (N)	P-429 (N)	P-430 (N)	P-431 (N)	P-432 (N)	P-433 (N)	P-434 (N)	P-435 (N)	P-436 (N)	P-437 (N)	P-438 (N)	P-439 (N)	P-440 (N)	P-441 (N)	P-442 (N)	P-443 (N)	P-444 (N)	P-445 (N)	P-446 (N)	P-447 (N)	P-448 (N)	P-449 (N)	P-450 (N)	P-451 (N)	P-452 (N)	P-453 (N)	P-454 (N)	P-455 (N)	P-456 (N)	P-457 (N)	P-458 (N)	P-459 (N)	P-460 (N)	P-461 (N)	P-462 (N)	P-463 (N)	P-464 (N)	P-465 (N)	P-466 (N)	P-467 (N)	P-468 (N)	P-469 (N)	P-470 (N)	P-471 (N)	P-472 (N)	P-473 (N)	P-474 (N)	P-475 (N)	P-476 (N)	P-477 (N)	P-478 (N)	P-479 (N)	P-480 (N)	P-481 (N)	P-482 (N)	P-483 (N)	P-484 (N)	P-485 (N)	P-486 (N)	P-487 (N)	P-488 (N)	P-489 (N)	P-490 (N)	P-491 (N)	P-492 (N)	P-493 (N)	P-494 (N)	P-495 (N)	P-496 (N)	P-497 (N)	P-498 (N)	P-499 (N)	P-500 (N)	P-501 (N)	P-502 (N)	P-503 (N)	P-504 (N)	P-505 (N)	P-506 (N)	P-507 (N)	P-508 (N)	P-509 (N)	P-510 (N)	P-511 (N)	P-512 (N)	P-513 (N)	P-514 (N)	P-515 (N)	P-516 (N)	P-517 (N)	P-518 (N)	P-519 (N)	P-520 (N)	P-521 (N)	P-522 (N)	P-523 (N)	P-524 (N)	P-525 (N)	P-526 (N)	P-527 (N)	P-528 (N)	P-529 (N)	P-530 (N)	P-531 (N)	P-532 (N)	P-533 (N)	P-534 (N)	P-535 (N)	P-536 (N)	P-537 (N)	P-538 (N)	P-539 (N)	P-540 (N)	P-541 (N)	P-542 (N)	P-543 (N)	P-544 (N)	P-545 (N)	P-546 (N)	P-547 (N)	P-548 (N)	P-549 (N)	P-550 (N)	P-551 (N)	P-552 (N)	P-553 (N)	P-554 (N)	P-555 (N)	P-556 (N)	P-557 (N)	P-558 (N)	P-559 (N)	P-560 (N)	P-561 (N)	P-562 (N)	P-563 (N)	P-564 (N)	P-565 (N)	P-566 (N)	P-567 (N)	P-568 (N)	P-569 (N)	P-570 (N)	P-571 (N)	P-572 (N)	P-573 (N)	P-574 (N)	P-575 (N)	P-576 (N)	P-577 (N)	P-578 (N)	P-579 (N)	P-580 (N)	P-581 (N)	P-582 (N)	P-583 (N)	P-584 (N)	P-585 (N)	P-586 (N)	P-587 (N)	P-588 (N)	P-589 (N)	P-590 (N)	P-591 (N)	P-592 (N)	P-593 (N)	P-594 (N)	P-595 (N)	P-596 (N)	P-597 (N)	P-598 (N)	P-599 (N)	P-600 (N)	P-601 (N)	P-602 (N)	P-603 (N)	P-604 (N)	P-605 (N)	P-606 (N)	P-607 (N)	P-608 (N)	P-609 (N)	P-610 (N)	P-611 (N)	P-612 (N)	P-613 (N)	P-614 (N)	P-615 (N)	P-616 (N)	P-617 (N)	P-618 (N)	P-619 (N)	P-620 (N)	P-621 (N)	P-622 (N)	P-623 (N)	P-624 (N)	P-625 (N)	P-626 (N)	P-627 (N)	P-628 (N)	P-629 (N)	P-630 (N)	P-631 (N)	P-632 (N)	P-633 (N)	P-634 (N)	P-635 (N)	P-636 (N)	P-637 (N)	P-638 (N)	P-639 (N)	P-640 (N)	P-641 (N)	P-642 (N)	P-643 (N)	P-644 (N)	P-645 (N)	P-646 (N)	P-647 (N)	P-648 (N)	P-649 (N)	P-650 (N)	P-651 (N)	P-652 (N)	P-653 (N)	P-654 (N)	P-655 (N)	P-656 (N)	P-657 (N)	P-658 (N)	P-659 (N)	P-660 (N)	P-661 (N)	P-662 (N)	P-663 (N)	P-664 (N)	P-665 (N)	P-666 (N)	P-667 (N)	P-668 (N)	P-669 (N)	P-670 (N)	P-671 (N)	P-672 (N)	P-673 (N)	P-674 (N)	P-675 (N)	P-676 (N)	P-677 (N)	P-678 (N)	P-679 (N)	P-680 (N)	P-681 (N)	P-682 (N)	P-683 (N)	P-684 (N)	P-685 (N)	P-686 (N)	P-687 (N)	P-688 (N)	P-689 (N)	P-690 (N)	P-691 (N)	P-692 (N)	P-693 (N)	P-694 (N)	P-695 (N)	P-696 (N)	P-697 (N)	P-698 (N)	P-699 (N)	P-700 (N)	P-701 (N)	P-702 (N)	P-703 (N)	P-704 (N)	P-705 (N)	P-706 (N)	P-707 (N)	P-708 (N)	P-709 (N)	P-710 (N)	P-711 (N)	P-712 (N)	P-713 (N)	P-714 (N)	P-715 (N)	P-716 (N)	P-717 (N)	P-718 (N)	P-719 (N)	P-720 (N)	P-721 (N)	P-722 (N)	P-723 (N)	P-724 (N)	P-725 (N)	P-726 (N)	P-727 (N)	P-728 (N)	P-729 (N)	P-730 (N)	P-731 (N)	P-732 (N)	P-733 (N)	P-734 (N)	P-735 (N)	P-736 (N)	P-737 (N)	P-738 (N)	P-739 (N)	P-740 (N)	P-741 (N)	P-742 (N)	P-743 (N)	P-744 (N)	P-745 (N)	P-746 (N)	P-747 (N)	P-748 (N)	P-749 (N)	P-750 (N)	P-751 (N)	P-752 (N)	P-753 (N)	P-754 (N)	P-755 (N)	P-756 (N)	P-757 (N)	P-758 (N)	P-759 (N)	P-760 (N)	P-761 (N)	P-762 (N)	P-763 (N)	P-764 (N)	P-765 (N)	P-766 (N)	P-767 (N)	P-768 (N)	P-769 (N)	P-770 (N)	P-771 (N)	P-772 (N)	P-773 (N)	P-774 (N)	P-775 (N)	P-776 (N)	P-777 (N)	P-778 (N)	P-779 (N)	P-780 (N)	P-781 (N)	P-782 (N)	P-783 (N)	P-784 (N)	P-785 (N)	P-786 (N)	P-787 (N)	P-788 (N)	P-789 (N)	P-790 (N)	P-791 (N)	P-792 (N)	P-793 (N)	P-794 (N)	P-795 (N)	P-796 (N)	P-797 (N)	P-798 (N)	P-799 (N)	P-800 (N)	P-801 (N)	P-802 (N)	P-803 (N)	P-804 (N)	P-805 (N)	P-806 (N)	P-807 (N)	P-808 (N)	P-809 (N)	P-810 (N)	P-811 (N)	P-812 (N)	P-813 (N)	P-814 (N)	P-815 (N)	P-816 (N)	P-817 (N)	P-818 (N)	P-819 (N)	P-820 (N)	P-821 (N)	P-822 (N)	P-823 (N)	P-824 (N)	P-825 (N)	P-826 (N)	P-827 (N)	P-828 (N)	P-829 (N)	P-830 (N)	P-831 (N)	P-832 (N)	P-833 (N)	P-834 (N)	P-835 (N)	P-836 (N)	P-837 (N)	P-838 (N)	P-839 (N)	P-840 (N)	P-841 (N)	P-842 (N)	P-843 (N)	P-844 (N)	P-845 (N)	P-846 (N)	P-847 (N)	P-848 (N)	P-849 (N)	P-850 (N)	P-851 (N)	P-852 (N)	P-853 (N)	P-854 (N)	P-855 (N)	P-856 (N)	P-857 (N)	P-858 (N)	P-859 (N)	P-860 (N)	P-861 (N)	P-862 (N)	P-863 (N)	P-864 (N)	P-865 (N)	P-866 (N)	P-867 (N)	P-868 (N)	P-869 (N)	P-870 (N)	P-871 (N)	P-872 (N)	P-873 (N)	P-874 (N)	P-875 (N)	P-876 (N)	P-877 (N)	P-878 (N)	P-879 (N)	P-880 (N)	P-881 (N)	P-882 (N)	P-883 (N)	P-884 (N)	P-885 (N)	P-886 (N)	P-887 (N)	P-888 (N)	P-889 (N)	P-890 (N)	P-891 (N)	P-892 (N)	P-893 (N)	P-894 (N)	P-895 (N)	P-896 (N)	P-897 (N)	P-898 (N)	P-899 (N)	P-900 (N)	P-901 (N)	P-902 (N)	P-903 (N)	P-904 (N)	P-905 (N)	P-906 (N)	P-907 (N)	P-908 (N)	P-909 (N)	P-910 (N)	P-911 (N)	P-912 (N)	P-913 (N)	P-914 (N)	P-915 (N)	P-916 (N)	P-917 (N)	P-918 (N)	P-919 (N)	P-920 (N)	P-921 (N)	P-922 (N)	P-923 (N)	P-924 (N)	P-925 (N)	P-926 (N)	P-927 (N)	P-928 (N)	P-929 (N)	P-930 (N)	P-931 (N)	P-932 (N)	P-933 (N)	P-934 (N)	P-935 (N)	P-936 (N)	P-937 (N)	P-938 (N)	P-939 (N)	P-940 (N)	P-941 (N)	P-942 (N)	P-943 (N)	P-944 (N)	P-945 (N)	P-946 (N)	P-947 (N)	P-948 (N)	P-949 (N)	P-950 (N)	P-951 (N)	P-952 (N)	P-953 (N)	P-954 (N)	P-955 (N)	P-956 (N)	P-957 (N)	P-958 (N)	P-959 (N)	P-960 (N)	P-961 (N)	P-962 (N)	P-963 (N)	P-964 (N)	P-965 (N)	P-966 (N)	P-967 (N)	P-968 (N)	P-969 (N)	P-970 (N)	P-971 (N)	P-972 (N)	P-973 (N)	P-974 (N)	P-975 (N)	P-976 (N)	P-977 (N)	P-978 (N)	P-979 (N)	P-980 (N)	P-981 (N)	P-982 (N)	P-983 (N)	P-984 (N)	P-985 (N)	P-986 (N)	P-987 (N)	P-988 (N)	P-989 (N)	P-990 (N)	P-991 (N)	P-992 (N)	P-993 (N)	P-994 (N)	P-995 (N)	P-996 (N)	P-997 (N)	P-998 (N)	P-999 (N)	P-1000 (N)
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